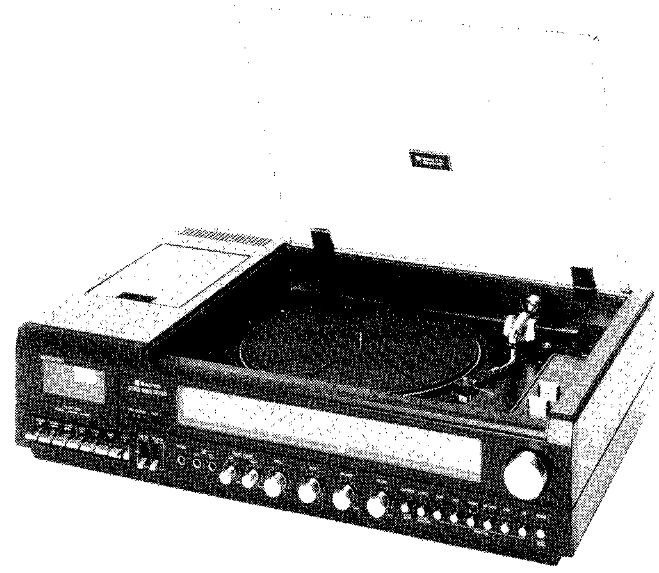
544

SERVICE MANUAL

SANYO

STEREO MUSIC SYSTEM

GXT4575LZ



SPECIFICATIONS

AM TUNER SECTION

Frequency range	MW 520 ~ 1605 KHz LW 150 ~ 350 KHz
Usable sensitivity (20dB S/N)	MW 500 μV/m (Loop ANT) LW 1 mV/m (Loop ANT)
Selectivity	Better than 25dB (MW)
Signal to noise ratio	Better than 40dB

FM TUNER SECTION

Frequency range	87.5 MHz ~ 108 MHz
30dB S/N sensitivity	5 μV
Limiting sensitivity	2.5 μV
Selectivity	Better than 40 dB
Signal to noise ratio	Better than 55dB (98MHz)
Harmonic distortion Mono	Less than 0.5% (100% mod.)
Stereo	Less than 0.7% (100% mod.)
Stereo separation	Better than 30 dB at 1000 Hz
Antenna impedance	300 ohm Balanced type

AUDIO AMPLIFIER SECTION

Continuous power output (RMS) 1 KHz, both channels driven at impedance 4 ohm	25 W + 25 W
Harmonic distortion	Less than 1% at rated power output
Frequency response at AUX input (±1.5dB)	10 Hz ~ 30 KHz
Bass control	±10dB 100 Hz
Treble control	±10dB 10 KHz
Signal to noise ratio	AUX Better than 65dB
PHONO equalization curve	RIAA standard

CASSETTE TAPE SECTION

Tape speed	1-$\frac{7}{8}$ IPS. ±1%
Fast forward time	100 sec. (C-60 cassette)
Rewind time	100 sec. (C-60 cassette)
Wow and flutter	±0.15% RMS.
Crosstalk	Better than 55 dB (track to track)
Stereo separation	40 dB (at 1000 Hz)
Signal to noise ratio	Better than 56dB
Frequency response	30 ~ 12500 Hz

GENERAL

Power source	220V, 50/60 Hz
Power consumption	120 W

NOTE : Specifications are subject to change without notice.

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ALIGNMENT PROCEDURES

IF and MW Alignment

Step	Mode	Signal Input	Frequency and Modulation of SSG	Dial Setting of Radio	Components to be Adjusted for Max. Output
1	MW	Thru Loop Ant.	455KHz 30%	Lower end	IFT, CF-3, T2
2	LW		145KHz 30%	Lower end	OSC Coil, L9
3	LW		360KHz 30%	Upper end	OSC trimmer, CT7
4	LW		160KHz 30%	160KHz	Ant. coil, L8
5	LW		350KHz 30%	350KHz	Ant. trimmer, CT5
6	MW		515KHz 30%	Lower end	OSC coil, L10
7	MW		1650KHz 30%	Upper end	OSC trimmer, CT6
8	MW		600KHz 30%	600KHz	Ant. coil, L8
9	MW		1400KHz 30%	1400KHz	Ant. trimmer, CT4

Repeat step 4 and 5. Repeat step 8 and 9.

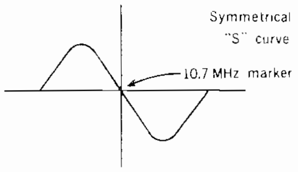


Fig. 1

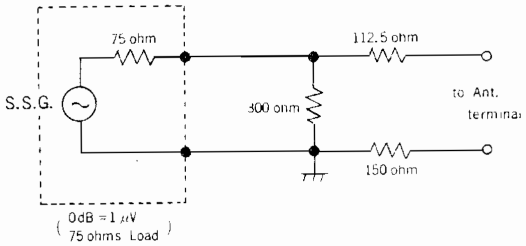


Fig. 2

FM IF Alignment

Step	Alignment Frequency	Test Equipment Connection	Adjustment
1	10.7MHz	Connect sweep generator to CV3 and Oscilloscope to test point TP1.	Tune for symmetrical "S" curve (Fig. 1) T1, L7

FM Alignment

Step	Signal Input	Frequency and Modulation of SSG	Dial Setting of Radio	Components to be Adjusted for Max. Output
1	Thru dummy Ant. Fig. 3	87.3MHz 30%	Lower end	OSC coil, L-3
2		109MHz 30%	Upper end	OSC trimmer, CT-3
3		90MHz 30%	90MHz	RF coil, L-2
4		90MHz 30%	90MHz	Ant. coil, L-1
5		106MHz 30%	106MHz	RF trimmer, CT-2
6		106MHz 30%	106MHz	Ant. trimmer, CT-1

Repeat step 3, 4, 5 and 6.

FM Tuning Meter Adjustment

Step	Signal Input	Output Frequency and Modulation of SSG	Dial Setting of Radio	Components to be Adjusted (Signal meter to be adjusted for full scale)
1	Thru dummy Ant. Fig. 2	80dB, 98MHz, 30%	98MHz	SVR2

FM MUTING Adjustment

Step	Signal Input	Output Frequency and Modulation of SSG	Dial Setting of radio	Components to be Adjusted
1	Thru dummy Ant. Fig. 2	30dB, 98MHz, 30%	98MHz	SVR-1—Muting ON

ALIGNMENT PROCEDURES

FM MPX Adjustment (Fig. 3)

Step	Subject	Standard Signal Generator	Stereo Signal Generator		Components to be Adjusted	Test Point	Indication
			Pilot Signal	Main, Left, Right and Sub Signal			
1	Adjustment of 19 KHz	98 MHz 60 dB	10% Mod.		SVR5	TP2	19 KHz
2	Adjustment of Separations			40% Mod. with main channel right channel (or left channel)	SVR4	left channel output (or right channel output)	Min. output

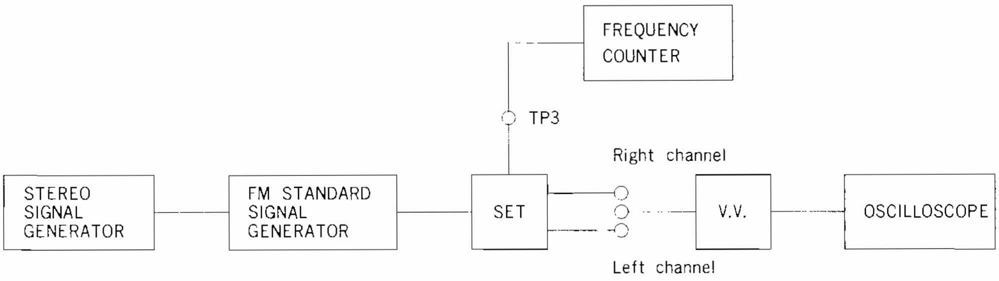


Fig. 3

Cassette Adjustment

(a) Output level adjustment

Input Signal	Component to be Adjusted	Test point	Adjustment
200 nwb/m (Dolby level Calibration)	SVR401 (501)	TP402 (502)	580 mV

(b) Bias current adjustment

Setting	Test Point	Component to be Adjusted	Adjustement
Rec mode & Fe_2O_3	TP401 (501)	① L401 (501)	Maximum
		② L401 (501) (Beat cut SW to the other position)	equal with Bias voltage in any position ① or ②
		③ SVR551 (552)	4.5 mV

(c) Level meter adjustment

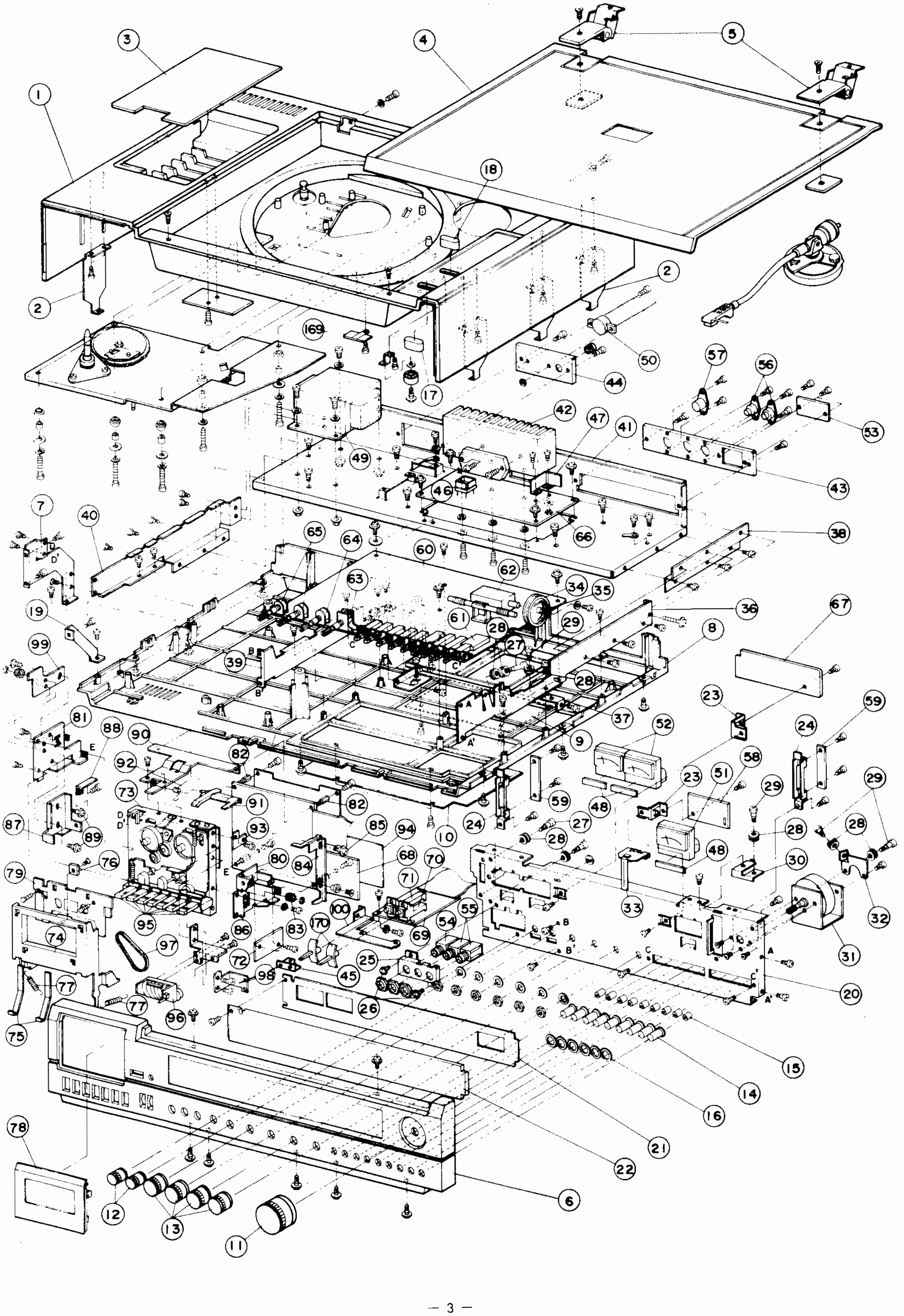
Input Signal	Setting Rec volume	Component to be Adjusted	Adjustment
316 mV (AUX)	580 mV at TP402 (502)	SVR403 (503)	+3 dB (DOLBY LEVEL) at level meter

(d) R/PB level adjustment

① Record	② Play back	③ Repeat Step ①,② until playback output reading at TP402 (502) is 580 mV by adjusting SVR402 (502).
Input Signal : 316 mV (AUX) Setting Rec Volume : 580 mV at TP402 (502)	Measure the output level at TP402 (502)	

NOTE : ( ) bracket············Right channel
non bracket············Left channel

EXPLODED VIEW (CABINET & CHASSIS)



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PARTS LIST

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			PACKAGE PARTS	
			Polyethylene bag, 160×240, AC cord	1
		R-4773308	Label, T.T	1
		R-4772139	Label, Motor	2
		R-4772573	Label, Stylus	1
		R-357405	Protection bag, Set	1
			Polyethylene bag, 320×320, T.T	1
		R-4171716	Styro-foam cushion, T.T	1
			Polyethylene bag, 60×145, Counter Weight	1
			Polyethylene bag, 60×145, Head shell	1
			Polyethylene bag, 160×240, Mic and Mic stand	2
		R-4773316	Instruction book	1
			Polyethylene bag, 240×320, Instruction book	1
		R-4171710a	Styro-foam cushion, Set right	1
		R-4171711a	Styro-foam cushion, Set left	1
		R-4074385	Individual carton	1
		R-4772197	Label, MADE IN JAPAN	2
			ACCESSORY PARTS	
		R-S07160	Microphone	2
		R-S07176	Cassette tape, C-12	1
			CABINET APPEARANCE PARTS	
1		R-A73713	Cabinet assembly	1
			Tap. Screw, Oval Hd., 3×12	2
2		R-1271270	Metal bracket, Cabinet	6
			Tap. Screw, Pan Hd., 3×8	6
		R-4773309	Specification sheet	1
		R-2672089	Label, ANT.	1
3		R-327443a-L	Cover	1
4		R-A73714	Dust cover assembly	1
5		R-S871573a	Hinge assembly	2
			Screw, Oval Hd., M4×10	2
			Screw, Pan Hd. with Washer, 3×8	2
		R-4773113	Label, Phono speed select hole	1
6		R-A73715	Front panel assembly	1
			Tap. Screw, Pan Hd., 3×8	1
			Tap. Screw, Pan Hd. with Washer, 3×6	2
			Tap. Screw, Pan Hd. with Washer, 3×8	3
7		R-1270980	Metal bracket, Panel left side	1
			Tap. Screw, Pan Hd., 3×8	2
8		R-A73336	Bottom cover assembly	1
			Tap. Screw, Pan Hd. with Washer, 3×8, B-tight	2
			Tap. Screw, Pan Hd. with Washer, 3×8	2
			Tap. Screw, Pan Hd., 4×8	10
			Tap. Screw, Pan Hd., 3×8, Black	2
			Tap. Screw, Oval Hd., 3×8	1
		R-2672184	Label, Terminal plate	1
		R-4770191	Label, Caution	1
9		R-1270529	Metal bracket, Amp. P.C.B.	1
			Tap. Screw, Pan Hd., 3×8	2
10		R-1270979	Metal bracket, Tuner P.C.B.	1
			Tap. Screw, Pan Hd., 3×8	2
11		R-A73337	Knob assembly, Tuning	1
12		R-A73338	Knob assembly, REC VR	2
13		R-A73339	Knob assembly, Bass/Treble/Balance/VR	4

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			CABINET APPEARANCE PARTS	
14		R-3972285	Knob, Function	9
15		R-4171489	Cushion, Function knob	9
16		R-437309a	Cushion, Function knob	6
17		R-3972289	Knob, Speed select	1
18		R-S871569	Knob assembly, Phono reject	1
		R-325062	45 RPM Record adaptor	1
19		R-1271360a	Metal bracket, Front panel~Bottom cover	1
			Tap. Screw, Pan Hd., 3×8	1
			Tap. Screw, Pan Hd., 3×6	1
			CHASSIS MECHANICAL PARTS	
20		R-A73340	Chassis assembly, Front	1
21		R-2671990	Back plate, Dial	1
22		R-387928	Dial scale	1
			Tap. Screw, Pan Hd., 3×8	2
23		R-1271271	Metal bracket, Level meter mtg.	2
			Tap. Screw, Pan Hd., 3×6	2
24		R-1271272	Metal bracket, Lamp. P.C.B. mtg.	2
			Tap. Screw, Pan Hd., 3×6	2
25		R-1271273	Metal bracket, Jack mtg.	1
26		R-147085	Special screw, Metal bracket	2
27		R-147054-2	Pulley shaft, Front chassis, ϕ4×13.5	2
28		R-357398	Pulley, Front chassis	2
			Flat Washer, Metal, 2.6×7.5×0.5t	1
30		R-1271274	Metal bracket, Pulley shaft	1
			Tap. Screw, Pan Hd., 3×6	1
29		R-147054-1	Pulley shaft, ϕ4×10.2	1
28		R-357398	Pulley	1
31		R-S871475	Flywheel assembly	1
			Screw, Flat Hd., 3×6, S-tight	3
32		R-1271275	Metal bracket, Flywheel	1
			Tap. Screw, Pan Hd., 3×6	1
29		R-147054-1	Pulley shaft, ϕ4×10.2	2
28		R-357398	Pulley	2
33		R-A73341	Pointer assembly	1
34		R-3970582	Drumm	1
35		R-157189	Coil spring	1
			Dial cord string, ϕ0.5×1670mm	1
36		R-1271267	Metal bracket, Front chassis~Metal bracket	1
			Tap. Screw, Pan Hd., 3×6	2
27		R-147054-2	Pulley shaft, ϕ4×13.5	1
28		R-357398	Pulley	2
37		R-1271276	Metal bracket, Pulley shaft	1
			Tap. Screw, Pan Hd., 3×6	1
29		R-147054-1	Pulley shaft, ϕ4×10.2	1
28		R-357398	Pulley	1
38		R-1271277	Metal bracket, Metal bracket~Back chassis	1
			Tap. Screw, Pan Hd., 3×8	7
39		R-1271269	Metal bracket, Front chassis~Back chassis	1
			Tap. Screw, Pan Hd., 3×8	5
			Tap. Screw, Pan Hd., 3×6	2
		R-127064a	Metal bracket	1
			Tap. Screw, Pan Hd., 3×8	1
40		R-1271268	Metal bracket, Metal bracket~Back chassis	1
			Tap. Screw, Pan Hd., 3×8	6
			Tap. Screw, Oval Hd., 3×6	2
41		R-1271236a	Chassis back	1
			Tap. Screw, Pan Hd. with Washer, 3×14, Black	2

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

CHASSIS MECHANICAL PARTS

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
42		R–277474	Heat sink, IC	1
			Screw, Pan Hd., 3×12	3
43		R–1271279	Metal bracket, Terminal plate	1
			Tap. Screw, Pan Hd., 3×8	2
		R–447942	Cover, Metal bracket hole	2
44		R–1271673	Metal bracket, AC cord	1
			Tap. Screw, Pan Hd., 3×8	2
		R–377070	Bushing, AC cord	1
		R–4072289	Spacer, Fuse holder	1
		R–3971488	Cover, Fuse	1
		R–4773310	Label, Fuse	1
		R–377064	Holder, Lead wire	1
		R–377065	Holder, Lead wire	2
46		R–277449	Heat sink, Amp. P.C.B.	1
			Screw, Pan Hd., 3×12	1
		R–1270925a	Shield case, Tuner P.C.C.B.	2
47		R–2672037	Heat sink, Transistor	1
			Screw, Pan Hd., 3×8	2
			Nut, Hex Hd., M3	2
48		R–4171539	Cushion, Level meter	3
		R–3971489	Label, Connector CS1	1
		R–3971490	Label, Connector CS2	1
		R–3971491	Label, Connector CS3	1
		R–3971493	Label, Connector CS5	1
		R–3971494	Label, Connector CS6	1
		R–3971496	Label, Connector CS8	1
		R–3971532	Label, Connector CS9	1
		R–3971533	Label, Connector CS10	1
		R–3971534	Label, Connector CS11	1
		R–3971535	Label, Connector CS12	1
		R–3971536	Label, Connector CS13	1
		R–3971537	Label, Connector CS14	1
		R–3971538	Label, Connector CS15	1
		R–3971539	Label, Connector CS16	1
		R–3971540	Label, Connector CS17	1
45		R–1271462a	Metal bracket, Shield plate	1
			Screw, Pan Hd., 3×6, B-tight	3

CHASSIS ELECTRICAL PARTS

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
49		R–W77664	Power transformer	1
			Screw, Pan Hd. with Washer, 4×14 B-tight	2
			Screw, Pan Hd. with Washer "A," 4×10	4
			Flat Washer, Metal, 4×10×1t	4
			Nut with Washer, 4	4
		R–S1755	Fuse holder	1
			Tap. Screw, Pan Hd., 2.6×8	1
	F1	R–S17191	Fuse, T800mA	1
	F5	R–S17235	Fuse, 2A	1
	F2, 3	R–S17169	Fuse, 4A	2
		R–S17263	Connector	2
		R–S37089	AC cord assembly	1
57		R–S2728	Socket, IN/OUT	1
			Tap. Screw, Pan Hd., 3×8, Black	2
56		R–S27058	Socket, SP	2
			Tap. Screw, Pan Hd., 3×8, Black	4
53		R–S17197	Terminal, ANT.	1
			Tap. Screw, Pan Hd., 3×8, Black	2
51		R–S57130 R–S57133	or Indicator, SIGNAL	1
55		R–S27277	Mic jack	2
54		R–S27308	Headphone jack	1
		R–S17205	Pilot lamp, 12V 110mA, SIGNAL IND	1

CHASSIS ELECTRICAL PARTS

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
	PL1, 2	R–S17205-1	Pilot lamp, 12V 110mA, DIAL	2
	S404	R–S4303	Slide switch, Beat cut	1
			Screw, Pan Hd., 2×6	2
	CS10	R–377052-4	Housing, 4P	1
	CS12	R–377052-2	Housing, 2P	1
		R–257158	Terminal, Housing	6
	CS5, 15, 14	R–S27298-3	Housing, 3P	3
	CS2, 8, 17, 13	R–S27298-6	Housing, 6P	4
	CS3	R–S27298-7	Housing, 7P	1
		R–247755	Terminal, Housing	40
		R–237113	Earth terminal	2
		R–S17243	Cord clip	5
			Tap. Screw, Pan Hd., 3×6	5
58		R–4171726	Printed circuit board, SIGNAL	$\frac{1}{2}$
59		R–4171762	Printed circuit board, DIAL	$\frac{1}{2}$
	CS6, 11, 16	R–S27298-4	Housing, 4P	3
		R–247755	Terminal, Housing	11
52		R–S57131 R–S57134	or Indicator	2
	VR401, 501	R–R1167226	Variable resistor, 5K-A, REC VOL.	2
		R–S17269	Cord clip	3

MAIN P.C.B. ASSEMBLY

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
60		R–A73716	Circuit board assembly, Main	1
61		R–S47436	Push switch, Function	1
62	CT1, 2 CV1, 2, 3, 4, 5	R–C1725	Variable capacitor	1
	CT3	R–C0716	Trimmer	1
	CT4, 5, 6, 7	R–C0729	Trimmer	2
	L1	R–W27094	Antenna coil, FM	1
	L2	R–W9707	VHF coil	1
	L3	R–W9716	VHF coil, FM OSC	1
	L5	R–W1780	Choke coil, 2.2μH	1
	L6	R–W1779	Choke coil, 18μH	1
	L7	R–W5T776	IF transformer	1
	L8	R–W27106	Antenna coil, MW LW	1
	L9	R–W8725	OSC coil, LW	1
	L10	R–W8775	OSC coil, MW	1
	L11, 12	R–M1705	Filter	2
	T1	R–W5T766	IF transformer	1
	T2	R–W5T312	IF transformer	1
	CF1	R–S17146	Ceramic filter	1
	CF2	R–S17065	Ceramicfilter	1
	CF3	R–W5CF701	Ceramicfilter	1
	SVR1, 201, 301	R–R110705	Preset resistor, 50K	3
	SVR2	R–R110735	Preset resistor, 20K	1
	SVR4	R–R110727	Preset resistor, 1K	1
	SVR5	R–R110729	Preset resistor, 5K	1
63		R–R1167202	Variable resistor, 100K-A×2, VOL.	1
64		R–R1167200	Variable resistor, 100K-M, N Balance	1
65		R–R1167201	Variable resistor, 100K-B×2, Bass/Tre	2
	L4	R–W9018	VHF coil	1
	CP1, 6	R–S27207-4	Plug, 4P	2
	CP2, 8	R–S27207-6	Pulug, 6P	2
	CP3	R–S27207-7	Plug, 7P	1
	CP5	R–S27207-3	Plug, 3P	1
			SEMICONDUCTORS	
	IC1		Integrated circuit, HA1137W	1
	IC2		Integrated circuit, LA3350	1
	IC201, 202		Integrated circuit, LA3133	2
	Q1		F.E.T., 2SK49H	1
	Q2, 4, 7, 8, 9		Transistor, 2SC930-E	5
	Q3		Transistor, 2SC668-E	1

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
MAIN P.C.B. ASSEMBLY				
	Q5, 6, 10, 11, 203, 303		Transistor, 2SC536 E	6
	Q201, 301, 202, 302		Transistor, 2SC536 G	4
	D1, 7, 8, 9		Diode, 1S1588	4
	D2, 3		Diode, 1S188 FM	2
	D4, 5, 6		Diode, 1S188 AM	3
			RESISTORS	
			(Resistors are of carbon type, ±10% allowance and $\frac{1}{4}$W unless otherwise noted.)	
	R2		10 ohm (R25 type)	1
	R54		33 ohm (R25 type)	1
	R11		47 ohm (R25 type)	1
	R32		150 ohm (R25 type)	1
	R47, 82, 83		220 ohm (R25 type)	3
	R16, 17		330 ohm (R25 type)	2
	R12, 35		390 ohm (R25 type)	2
	R39, 74		470 ohm (R25 type)	2
	R34, 68, 69		560 ohm (R25 type)	3
	R15		680 ohm (R25 type)	1
	R3, 10, 33, 41, 51, 75, 78, 79, 232, 332, 234, 334		1 K ohm (R25 type)	12
	R14		1.5 K ohm (R25 type)	1
	R36, 55		1.8 K ohm (R25 type)	2
	R25, 30, 42, 43, 62, 63, 227, 327		2.2 K ohm (R25 type)	8
	R5, 60, 61		3.3 K ohm (R25 type)	3
	R21		3.9 K ohm (R25 type)	1
	R31, 207, 307, 239, 339		4.7 K ohm (R25 type)	5
	R4, 38, 40, 44, 231, 331		5.6 K ohm (R25 type)	6
	R29, 70, 71		6.8 K ohm (R25 type)	3
	R20, 52, 223, 323		8.2 K ohm (R25 type)	4
	R6, 7, 8, 13, 23, 49, 224, 324, 228, 328		10 K ohm (R25 type)	10
	R19, 22, 64, 65, 337		12 K ohm (R25 type)	5
	R226, 326		18 K ohm (R25 type)	2
	R53		33 K ohm (R25 type)	1
	R28, 37, 229, 329		39 K ohm (R25 type)	4
	R26		47 K ohm (R25 type)	1
	R9, 201, 301, 211, 311		56 K ohm (R25 type)	5
	R50		56 K ohm (R25 type)	1
	R18, 46, 48		100 K ohm (R25 type)	3
	R66, 67, 213, 313		120 K ohm (R25 type)	4
	R1		1 M ohm (R25 type)	1
	R59		Solid, 100 ohm, ±10%, $\frac{1}{2}$W	1
	R58		Solid, 470 ohm, ±10%, $\frac{1}{2}$W	1
	R56		Solid, 560 ohm, ±10%, $\frac{1}{2}$W	1
	R73		Solid, 680 ohm, ±10%, $\frac{1}{2}$W	1
	R57		Metal oxide film, 220 ohm, ±10%, 1W	1
	R206, 215, 236, 72		Metal oxide film, 560 ohm, ±10%, 1W	4
	R233, 333		2.7 K ohm (R25 type)	2
	R235		22 K ohm (R25 type)	1
	R204, 304, 214, 314		27 K ohm (R25 type)	4
	R202, 302, 212, 312, 238, 338		220 K ohm (R25 type)	6
	R203, 303, 230, 330		270 K ohm (R25 type)	4
	R225, 325		330 K ohm (R25 type)	2
	R222, 322		820 K ohm (R25 type)	2
	R221, 321		1.5 M ohm (R25 type)	2
	R237		12 K ohm	1
	R45		1.2 K ohm (R25 type)	1
	R81		100 K ohm	1
			CAPACITORS	
	C2, 18, 32, 229, 329		Ceramic, 100 pF, ±10%, 25V, SL	5
	C13, 80, 81		Ceramic, 470 pF, ±10%, 25V, SL	3
	C44		Ceramic, 15 pF, ±10%, 25V, SL	1
	C42		Ceramic, 100 pF, ±10%, 25V, SL	1

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
MAIN P.C.B. ASSEMBLY				
	C4		Ceramic, 12 pF, ±10%, 25V, SL	1
	C36		Ceramic, 18 pF, ±10%, 25V, SL	1
	C207, 307		Ceramic, 56 pF, ±10%, 25V, SL	2
	C204, 304, 213, 313, 222, 322		Ceramic, 470 pF, ±10%, 25V, SL	6
	C214, 314		Ceramic, 47 pF, ±10%, 25V, SL	2
	C232, 332		Ceramic, 390 pF, ±10%, 25V, SL	2
	C8, 10		Ceramic, 3 pF, ±0.5pF, 25 V, SL	2
	C1, 9		Ceramic, 7 pF, ±0.5pF, 25 V, SL	2
	C6, 7, 11		Ceramic, 15 pF, ±10%, 25 V, SL	3
	C3, 5, 14, 15, 16, 20, 22, 25, 26, 27, 28, 29, 30, 49, 60, 82		Ceramic, 0.02 mfd, +100 −0%, 25V, YZ	16
	C77		Ceramic, 0.04 mfd, ±20%, 25V, YW	1
	C38		Mylar, 0.0047 mfd, ±20%, 25V	1
	C37, 40, 47		Mylar, 0.01 mfd, ±20%, 25V	3
	C19, 46, 48, 21		Mylar, 0.022 mfd, ±20%, 25V	4
	C72, 73		Mylar, 0.027 mfd, ±20%, 25V	2
	C76		Mylar, 0.047 mfd, ±20%, 25V	1
	C55, 233, 333		Mylar, 0.1 mfd, ±20%, 25V	3
	C53		Mylar, 0.033 mfd, ±20%, 25V	1
	C52		Mylar, 0.015 mfd, ±20%, 25V	1
	C206, 306		Mylar, 0.0027 mfd, ±10%, 25V	2
	C205, 305		Mylar, 0.015 mfd, ±10%, 25V	2
	C225, 325		Mylar, 0.0012 mfd, ±10%, 25V	2
	C224, 324, 226, 326		Mylar, 0.047 mfd, ±10%, 25V	4
	C74		Styrol, 1500 pF, ±5%, 25V	1
	C41		Styrol, 200 pF, ±5%, 25V	1
	C43		Styrol, 350 pF, ±5%, 25V	1
	C58		Electrolytic, 25V/220 mfd	1
	C63		Electrolytic, 16V/330 mfd	1
	C57, 64, 71		Electrolytic, 16V/100 mfd	3
	C45		Electrolytic, 16V/22 mfd	3
	C7		Electrolytic, 16V/3.3 mfd	1
	C65, 66, 67, 68, 69, 70		Electrolytic, 16V/2.2 mfd	6
	C59		Electrolytic, 16V/1 mfd Alsicon	1
	C61		Electrolytic, 16V/0.47 mfd Alsicon	1
	C62		Electrolytic, 16V/0.22 mfd Alsicon	1
	C23, 24, 31		Electrolytic, 10V/1 mfd	3
	C33		Electrolytic, 10V/0.47 mfd Alsicon	1
	C216		Electrolytic, 35V/100 mfd	2
	C201, 301		Electrolytic, 25V/3.3 mfd Alsicon	2
	C208, 308, 215, 315		Electrolytic, 35V/10 mfd	4
	C203, 303		Electrolytic, 6.3V/47 mfd	2
	C211, 311		Electrolytic, 25V/1 mfd Alsicon	2
	C231		Electrolytic, 35V/220 mfd	1
	C221, 321		Electrolytic, 25V/0.47 mfd Alsicon	2
	C228, 328		Electrolytic, 6.3V/220 mfd	2
	C223, 323, 227, 327, 230, 330		Electrolytic, 25V/4.7 mfd	6
	C234		Electrolytic, 25V/2.2 mfd	1
	C202, 302		Electrolytic, 16V/47 mfd	2
	C209		Electrolytic, 35V/470 mfd	1
	C39		Mylar, 0.0068 mfd, ±20%, 25V	1
	C12		Ceramic, 15 pF, ±10%, 25V, NPO	1
	C50		Electrolytic, 10V/10 mfd	1
	C54		Electrolytic, 10V/0.22 mfd	1
	C212, 312		Electrolytic, 16V/10 mfd	2
	C235, 335		Electrolytic, 35V/47 mfd	2
AMP. P.C.B. ASSEMBLY				
66		R—A73343	Circuit board assembly, Amp.	1
		R—S17024	Fuse clip	6
	CP10	R—S27206-4	Plug, 4P	1
	CP11	R—S27207-4	Plug, 4P	1
	CP12	R—S27206-2	Plug, 2P	1
	CP9	R—S27207-3	Plug, 3P	1

NOTES : 1. Patr orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			AMP. P.C.B. ASSEMBLY	
			SEMICONDUCTORS	
	IC203		Integrated circuit, STK041	1
	Q801, 802		Transistor, 2SC1398 P or Q	2
	D801,		Diode, S5VB20	1
	D802		Diode, SIRBA20	1
	D803		Diode, 10D1	1
	D804		Zener diode, BZ-310	1
	D805		Zener diode, BZ-210	1
			RESISTORS	
			(Resistors are of carbon type, ±10% allowance and $\frac{1}{4}$W unless otherwise noted.)	
	R251, 351		560 ohm	2
	R252, 352, 253, 353		39 K ohm	4
	R804, 806		56 ohm	2
	R801		6.8 K ohm	1
	R254		Metal film, 100 ohm, ±10%, $\frac{1}{2}$W (Fuse type)	1
	R802		Metal film, 10 ohm, ±10%, $\frac{1}{2}$W (Fuse type)	1
	R255		Metal oxide film, 560 ohm, ±10%, 1W	1
	R805		Metal oxide film, 56 ohm, ±10%, 2W	1
	R803		Metal oxide film, 560 ohm, ±10%, 2W	1
	R807		Metal oxide film, 820 ohm, ±10%, 2W	1
	R851, 852		Metal oxide film, 220 ohm, ±10%, 2W	2
	R256, 356		Metal oxide film, 10 ohm, ±10%, 1W	2
			CAPACITORS	
	C252, 352		Ceramic, 220 pF, ±10%, 25V, SL	2
	C253, 353		Ceramic, 47 pF, ±10%, 25V, SL	2
	C254, 258		Ceramic, 0.04 mfd, +100 −0%, 25V, YZ	2
	C259, 359		Mylar, 0.01 mfd, ±20%, 25V	2
	C803, 804, 805, 806, 807, 808, 809		Mylar, 0.1 mfd, ±20%, 100V	7
	C801, 802		Electrolytic, 35V/3300 mfd	2
	C815		Electrolytic, 50V/470 mfd	1
	C810		Electrolytic, 25V/1000 mfd	1
	C812		Electrolytic, 35V/220 mfd	1
	C811		Electrolytic, 35V/100 mfd	1
	C813		Electrolytic, 25V/220 mfd	1
	C814		Electrolytic, 25V/100 mfd	1
	C257, 357		Electrolytic, 35V/100 mfd	2
	C256, 356		Electrolytic, 25V/47 mfd	2
	C255, 355		Electrolytic, 6.3V/33 mfd	2
	C251, 351		Electrolytic, 25V/0.47 mfd Alsicon	2
	C854		Mylar, 0.047 mfd, ±20%, AC250V	1
			RECORD IND P.C.B. ASSEMBLY	
67		R–A73344	Circuit board assembly, RECORD IND	1
		R–S17205	Pilot lamp	2*
		R–S17237	Pilot lamp	1
		R–237050	Eyelet lug	4
		R–4470064	Holder, P.L	1
		R–4470027	Cushion	1
			CASSETTE P.C.B. ASSEMBLY	
68		R–A73345	Circuit board assembly, Cassette	1
	S401	R–S47313	Slide switch	1
	L401, 501	R–W1777	Bias trap coil	2
	L402, 502, 403, 503, 404, 504	R–W6724	Coil, 10mH	6
	L551	R–W8737	OSC coil	1
	SVR401, 501, 402, 502	R–R110724	Preset resistor, 10K	4
	SVR403, 503	R–R110706	Preset resistor, 2K	2
	SVR551, 552	R–R110723	Preset resistor, 100K	2
		R–M1703	Filter	2
		R–M1704	Filter	2
	CP13, 17	R–S27207-6	Plug, 6P	2

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			CASSETTE P.C.B. ASSEMBLY	
	CP14, 15	R–S27207-3	Plug, 3P	2
	CP16	R–S27207-4	Plug, 4P	1
		R–S37179	P.C. joinner	1
			SEMICONDUCTORS	
	IC401		Integrated circuit, LA3155	1
	IC402, 502		Integrated citcuit, NE645B	2
	Q401, 501, 402, 502, 403, 503		Transistor, 2SC536 G	6
	Q451, 452		Transistor, 2SC1317 R	2
	D401, 501		Diode, 1S188 AM	2
			RESISTORS	
	R411, 511		Carbon, 10 ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R412, 512		Carbon, 150 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R413, 513, 456		Carbon, 3.3 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	3
	R414, 514		Carbon, 4.7 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R407		Carbon, 68 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	1
	R415, 515		Carbon, 120 K ohm ±5%, $\frac{1}{4}$W (R25 type)	2
	R417, 517		Carbon, 180 ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R418, 518		Carbon, 47 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R420, 520, 421, 521, 437, 537		Carbon, 1 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	6
	R422, 522		Carbon, 270 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R424, 524		Carbon, 200 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R425, 525		Carbon, 10 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R426, 526		Carbon, 18 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R427, 527		Carbon, 39 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R428, 528		Carbon, 330 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R429, 529, 457		Carbon, 5.6 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	3
	R430, 530		Carbon, 27 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R431, 531		Carbon, 680 ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R438, 538		Carbon, 100 ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R434, 534		Carbon, 1.2 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R433, 533		Carbon, 820 ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R435, 535		Carbon, 100 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R436, 536, 442, 542		Carbon, 8.2 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	4
	R439, 539		Carbon, 560 ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R419, 519		Metal film, 3.3 K ohm, ±1%, $\frac{1}{8}$W	2
	R403		Metal oxide film, 180 ohm, ±5%, 1W	1
	R402		Metal oxide film, 150 ohm, ±5%, 2W	1
	R455		Solid, 33 ohm, ±5%, $\frac{1}{2}$W	1
	R432, 532		Carbon, 150 ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R441, 541		Carbon, 1.2 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	2
	R404		Carbon, 1.8 K ohm, ±5%, $\frac{1}{4}$W (R25 type)	1
	R440, 540		Carbon, 68 ohm, ±5%, $\frac{1}{4}$W	2
	R405		Metal oxide film, 100 ohm, ±5%, 1W	1
	R443, 543		Carbon, 150 ohm, ±5%, $\frac{1}{4}$W	2
			CAPACITORS	
	R420, 520		Mylar, 0.0056 mfd, ±5%, 50V	2
	C414, 514		Mylar, 0.015 mfd, ±5%, 50V	2
	C422, 522		Mylar, 0.027 mfd, ±5%, 50V	2
	C423, 523		Mylar, 0.0047 mfd, ±5%, 50V	2
	C426, 526		Mylar, 0.047 mfd, ±5%, 50V	2
	C431, 531		Mylar, 0.1 mfd, ±10%, 50V	2
	C453, 554		Mylar, 0.001 mfd, ±10%, 50V	2
	C457, 458		Mylar, 0.01 mfd, ±10%, 50V	2
	C435, 535		Mylar, 0.001 mfd, ±5%, 50V	2
	C438, 538, 436, 536		Mylar, 0.01 mfd, ±5%, 50V	4
	C439, 539		Mylar, 0.027 mfd, ±5%, 50V	2
	C441, 541		Mylar, 0.0082 mfd, ±5%, 50V	2
	C442, 542		Mylar, 0.068 mfd, ±5%, 50V	2
	C455		Mylar, 0.001 mfd, ±5%, 100V	1
	C417, 517		Ceramic, 50 pF, ±10%, 50V, SL	2
	C446, 546		Ceramic, 470 pF, ±10%, 50V, YW	2
	C445, 545		Ceramic, 20 pF, ±10%, 50V, SL	2
	C456, 459		Ceramic, 120 pF, ±10%, 50V, YW	2
	C413, 513		Styrol, 750 pF, ±5%, 50V	2
	C411, 511		Styrol, 330 pF, ±5%, 50V	2

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PARTS LIST

CASSETTE P.C.B. ASSEMBLY

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
	C452		Styrol, 270pF, ±5%, 125V	1
	C412, 512		Electrolytic, 25V/4.7mfd Alsicon	2
	C418, 518, 437, 537		Electrolytic, 10V/10mfd	4
	C415, 515		Electrolytic, 6.3V/47mfd	2
	C416, 516, 421, 521, 425, 525		Electrolytic, 16V/10mfd	6
	C402, 403		Electrolytic, 16V/220mfd	2
	C419, 519		Electrolytic, 25V/1mfd Alsicon	2
	C424, 524		Electrolytic, 10V/220mfd	2
	C429, 529		Electrolytic, 25V/0.33mfd Alsicon	2
	C430, 530		Electrolytic, 25V/0.1mfd Alsicon	2
	C427, 527, 428, 528		Electrolytic, 16V/10mfd	4
	C432, 532, 443, 543		Electrolytic, 25V/1mfd	4
	C434, 534		Electrolytic, 25V/3.3mfd Alsicon	2
	C401		Electrolytic, 25V/220mfd	1
	C444, 544		Electrolytic, 25V/10mfd	2
	C404		Electrolytic, 35V/2.2mfd	1
	C451		Electrolytic, 16V/330mfd	1

TAPE SELECT P.C.B. ASSEMBLY

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
69		R−A72822	Circuit board assembly, Tape select	1
70	S402	R−S47405	Lever slide switch	1
71	S403	R−47404	Lever slide switch	1
			Screw, Pan Hd., 3×4	2
			RESISTORS	
	R459		Carbon, 150ohm, ±5%, $\frac{1}{4}$W (R25 type)	1
	R458		Solid, 220ohm, ±5%, $\frac{1}{2}$W	1

AUTO STOP P.C.B. ASSEMBLY

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
72		R−A72823	Circuit board assembly, Auto stop	1
	S407	R−S17038	Lead switch, Pause	1
			SEMICONDUCTORS	
	Q551		Transistor, 2SA825R	1
	Q552		Transistor, 2SC1317R	1
	D551, 552		Diode, 1S1588	2
	D553		Diode, 10D1	1
			RESISTORS	
	R551		Carbon, 100ohm, ±5%, $\frac{1}{4}$W	1
	R552		Carbon, 2.7K ohm, ±5%, $\frac{1}{4}$W	1
	R553		Carbon, 56K ohm, ±5%, $\frac{1}{4}$W	1
	R554		Carbon, 680ohm, ±5%, $\frac{1}{4}$W	1
	R555		Carbon, 1K ohm, ±5%, $\frac{1}{4}$W	1
	R556		Metal film, 10ohm, ±5%, $\frac{1}{2}$W (Fuse type)	1
			CAPACITORS	
	C555		Ceramic, 220pF, ±10%, 50V, YW	1
	C551		Electrolytic, 10V/100mfd	1
	C552		Electrolytic, 16V/47mfd	1
	C553		Electrolytic, 25V/22mfd	1
	C554		Electrolytic, 16V/10mfd	1

CASSETTE MECHANISM

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
73		R−S97065a	Cassette unit complete	1
			Screw, Flat Hd., 3×6	2
			Screw, Pan Hd., 3×6, S-tight	1
			Screw, Pan Hd., 2.6×6, S-tight	1
			Tap. Screw, Oval Hd., 3×12	1
			Tap. Screw, Oval Hd., 3×16	2
74		R−3971977a	Cassette case	1
75		R−137096a	Spring metal, Cassette case	2
			Screw, Pan Hd., 2.6×6, P-tight	2
76		R−3972334	Metal bracket, Case stopper	1
			Tap. Screw, Flat Hd., 2.6×6	1
77		R−157963	Coil spring, Cassette case	2
78		R−A73346	Cassette case cover assembly	1
79		R−A72828	Cassette mecha cover assembly	1

CASSETTE MECHANISM

Key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			Screw, Pan Hd., 2×6	2
80		R−S871444	Metal bracket assembly, Right	1
			Screw, Pan Hd., 2.6×4, S-tight	1
81		R−1270967a	Metal bracket, Left	1
			Screw, Pan Hd., 2.6×6, S-tight	2
82		R−247144	Special screw, P.C.B. mtg.	2
83		R−3971979	Gear	3
			Washer, Thrust, 3.5×0.25	2
			Ring-E, 2.5	1
84		R−1171132	Lever, Eject	1
85		R−147048	Special screw, Eject lever	1
86		R−157746a	Coil spring, Eject lever	1
87		R−1270965a	Lever, REC	1
88		R−157801	Spring metal, REC lever	1
			Screw, Pan Hd., 3×6	1
89		R−147046	Special screw, REC lever	2
90		R−1270968a	Metal bracket, Mechanism top	1
			Screw, Pan Hd., 2.6×6, S-tight	2
		R−2471144	Special screw, P.C.B. mtg.	2
91		R−3971980a	Arm, Cassette case stop	1
92		R−157965	Coil spring, Arm	1
93		R−1270969	Metal bracket, Arm	1
			Screw, Pan Hd., 3×6, S-tight	1
94		R−1270987	Shield plate, P.C.B.	1
95		R−A73347	Button select complete	1
		R−127951a	Shield case	1
		R−157973	Shaft, Eject lever	1
			Screw, Flat Hd., 2.6×6	1
		R−S17243	Cord clip	1
			Screw, Pan Hd., 3×4, Stight	1
96		R−S57155	Tape counter	1
97		R−4470033	Belt, Tape counter	1
98		R−1171172	Metal bracket, Front panel	1
			Screw, Pan Hd., 2.6×6, Cassette P.C.B.	6
99				
99		R−S871567	Metal bracket assembly, Oil dump	1
			Screw, Cup Tight, 3×6, Oil dump	1
		R−1271424	Metal bracket, Counter	1
			Tap. Screw, Pan Hd., 3×6	1
100		R−1271288	Metal bracket, Tape select P.C.B.	1
			Tap. Screw, Pan Hd., 3×6	2
			Tap. Screw, Pan Hd., 3×8	1
			External tooth Lock Washer, Metal, 2.6	1
		R−367219	Cover, Tape select & Dolby Knob	2
		R−477904a	Label, Shield plate	1
170		R−3972288	Knob, Tape select	2
		R−3971979	Gear, Oil dump	2
			Thrust Washer, Metal, 3.5×0.5t	4
			E-ring, E2.5	2

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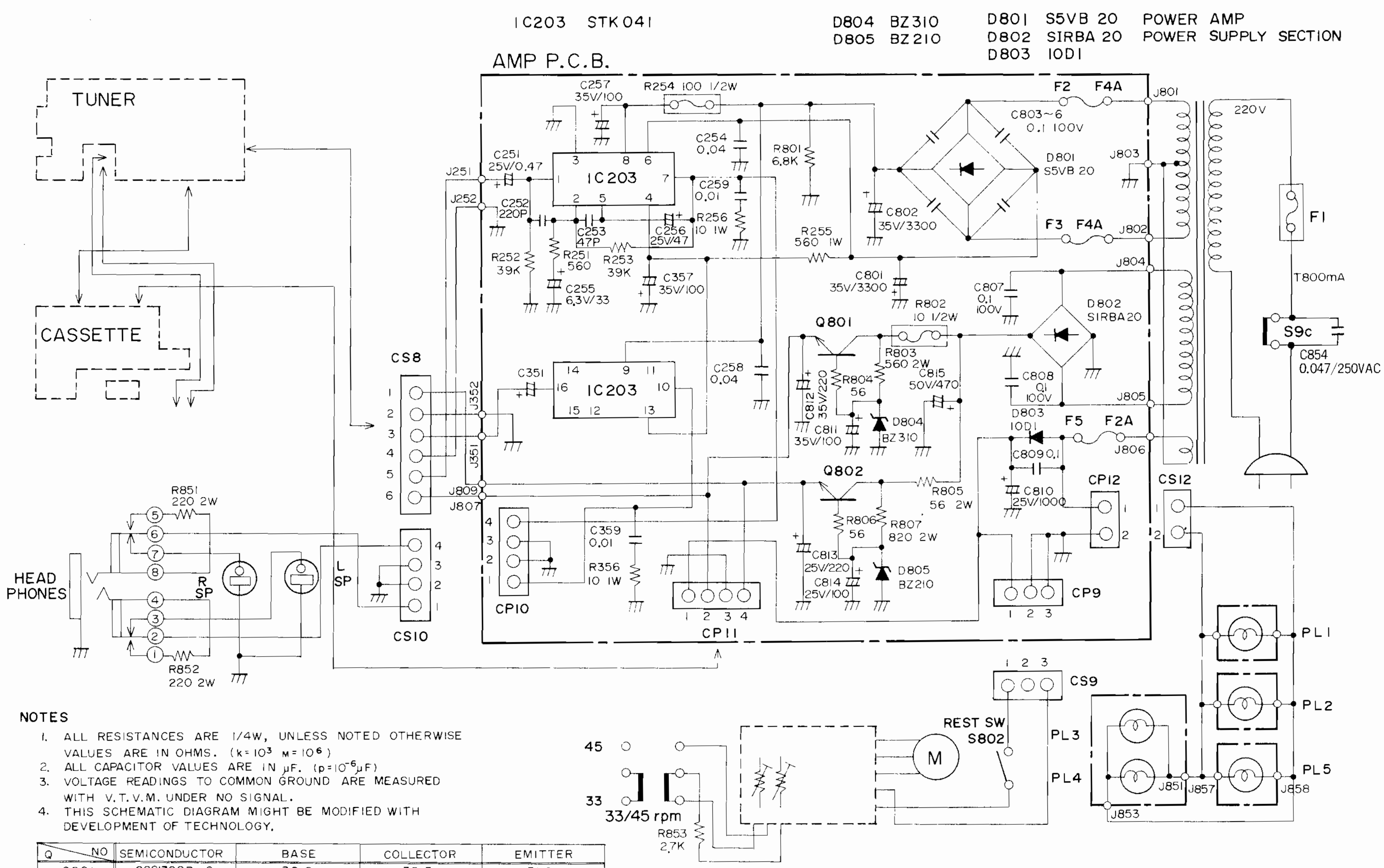
SCHEMATIC DIAGRAM


IC203 STK041
D804 BZ310
D805 BZ210
D801 S5VB 20
D802 SIRBA 20
D803 10D1
POWER AMP
POWER SUPPLY SECTION
AMP P.C.B.
TUNER
CASSETTE
HEAD PHONES
R SP
L SP
R851 220 2W
R852 220 2W
CS8
CS10
CP10
CP11
CP9
CP12
CS12
CS9
J251
J252
J351
J352
J809
J807
C251 25V/0.47
C252 220P
R252 39K
R251 560
C255 6.3V/33
C253 47P
R253 39K
C256 25V/47
C357 35V/100
R256 10 1W
C259 0.01
C254 0.04
C257 35V/100
R254 100 1/2W
R801 6.8K
R255 560 1W
C258 0.04
C351
IC203
C359 0.01
R356 10 1W
C802 35V/3300
C801 35V/3300
C803~6 0.1 100V
F2 F4A
F3 F4A
J801
J803
J802
J804
J805
J806
R802 10 1/2W
Q801
R803 560 2W
R804 56
C815 50V/470
C812 35V/220
C811 35V/100
D804 BZ310
C807 0.1 100V
D802 SIRBA20
C808 0.1 100V
D803 10D1
F5 F2A
C809 0.1
C810 25V/1000
Q802
R805 56 2W
R806 56
R807 820 2W
C813 25V/220
C814 25V/100
D805 BZ210
220V
F1
T800mA
S9c
C854 0.047/250VAC
45
33
33/45 rpm
R853 2.7K
M
REST SW S802
PL1
PL2
PL3
PL4
PL5
J851
J853
J857
J858

NOTES

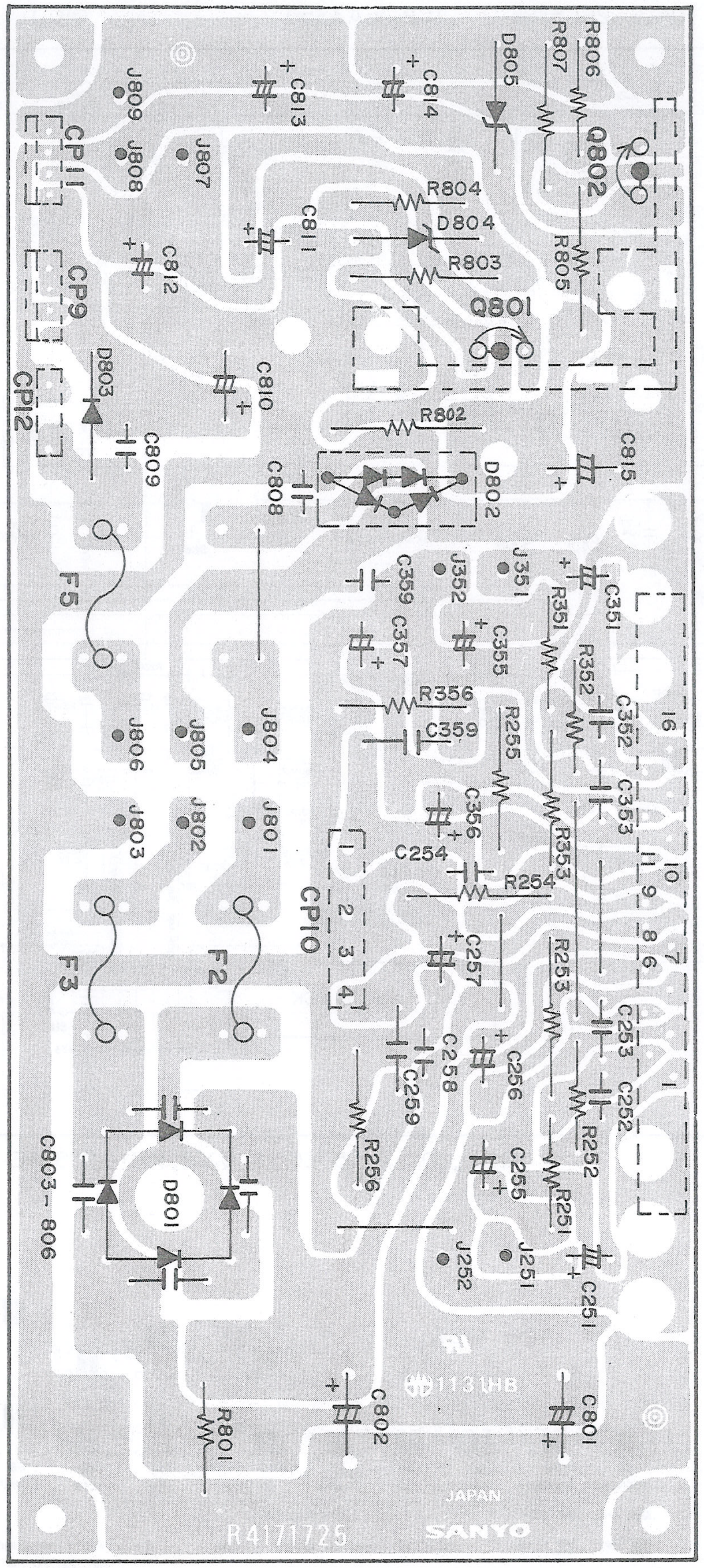
1. ALL RESISTANCES ARE 1/4W, UNLESS NOTED OTHERWISE VALUES ARE IN OHMS. ($k=10^3$ $M=10^6$)
2. ALL CAPACITOR VALUES ARE IN μF. ($p=10^{-6}\mu F$)
3. VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M. UNDER NO SIGNAL.
4. THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY.

Q \ NO	SEMICONDUCTOR	BASE	COLLECTOR	EMITTER
Q801	2SC1398PorQ	32.6	38.3	31.9
Q802	2SC1398PorQ	21.9	34.6	21.3

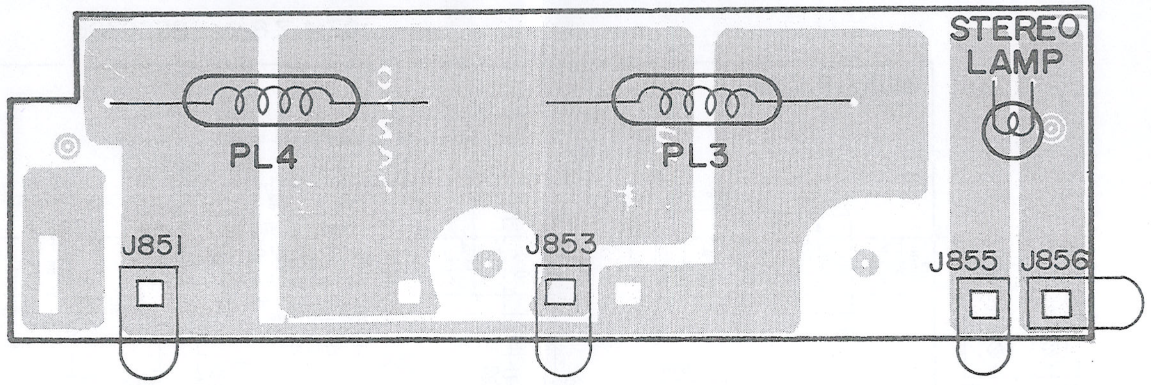
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC203 STK041 (V)	0	0	0	-14.7	-10.5	-23.5	0	22.5	23.4	0	-23.4	-10.5	-14.7	0	0	0

WIRING DIAGRAM

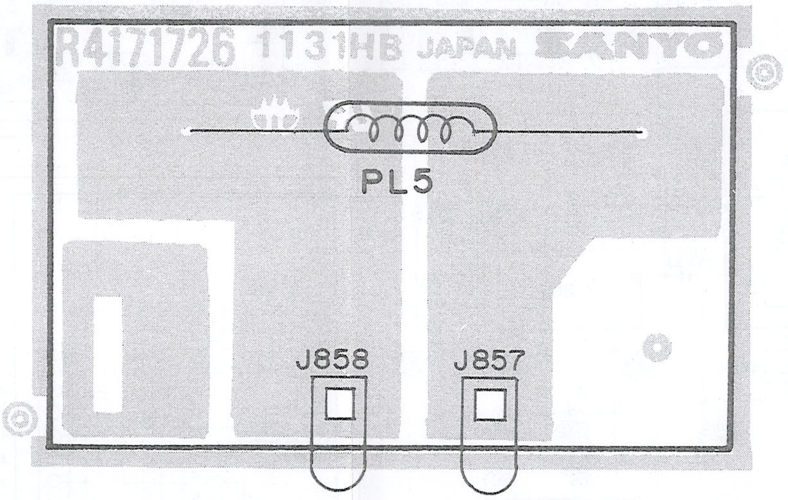
AMP. P.C.B. Bottom


J809
J808
J807
C813
C814
D805
R807
R806
Q802
CP11
C812
C811
R804
D804
R803
R805
CP9
Q801
D803
CP12
C810
C809
R802
C815
C808
D802
F5
J351
J352
C359
C357
C355
C351
R351
R352
R356
C359
C352
R255
16
J806
J805
J804
C356
C353
J803
J802
J801
C254
R254
R353
11
10
9
8
7
6
1
2
3
4
CP10
F3
F2
C257
R253
C258
C259
C256
C253
C252
R256
C255
R252
R251
1
D801
C803-806
J252
J251
C251
R801
C802
C801
113 1HB
JAPAN
R4171725
SANYO

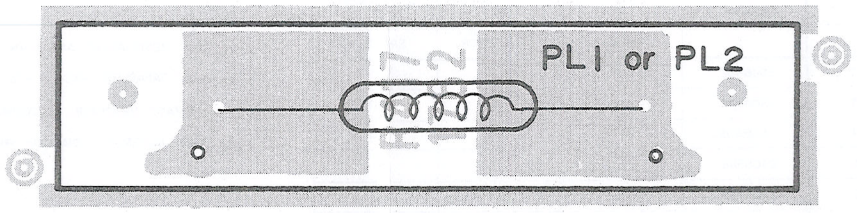
RECORD IND P.C.B. Bottom


STEREO LAMP
PL4
PL3
J851
J853
J855
J856

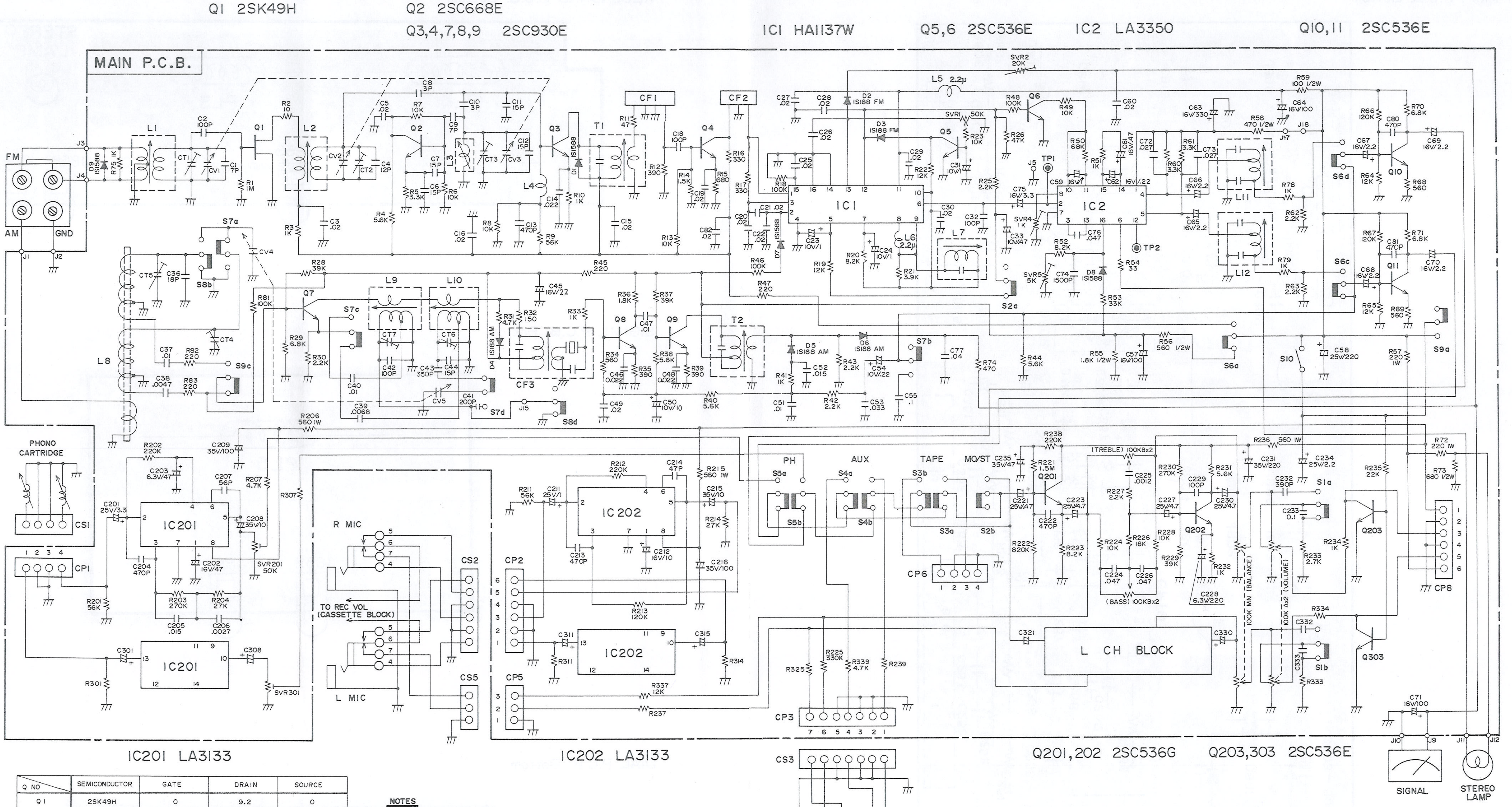
SIGNAL P.C.B. Bottom

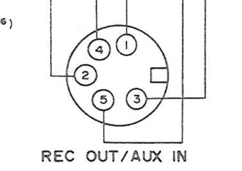

R4171726 1131HB JAPAN SANYO
PL5
J858
J857

DIAL P.C.B. Bottom



SCHEMATIC DIAGRAM


Q1 2SK49H
Q2 2SC668E
Q3,4,7,8,9 2SC930E
IC1 HA1137W
Q5,6 2SC536E
IC2 LA3350
Q10,11 2SC536E
MAIN P.C.B.
FM
AM
GND
CF1
CF2
CF3
L1
L2
L3
L4
L5 2.2μ
L6 2.2μ
L7
L8
L9
L10
L11
L12
T1
T2
IC1
IC2
TP1
TP2
PHONO CARTRIDGE
CS1
CP1
IC201
IC202
R MIC
L MIC
TO REC VOL (CASSETTE BLOCK)
CS2
CS5
CP2
CP5
CP3
CP6
CP8
PH
AUX
TAPE
MO/ST
(TREBLE) 100KBx2
(BASS) 100KBx2
100K MN (BALANCE)
100K Ax2 (VOLUME)
Q201
Q202
Q203
Q303
L CH BLOCK
IC201 LA3133
IC202 LA3133
Q201,202 2SC536G
Q203,303 2SC536E
SIGNAL
STEREO LAMP


CS3
REC OUT/AUX IN

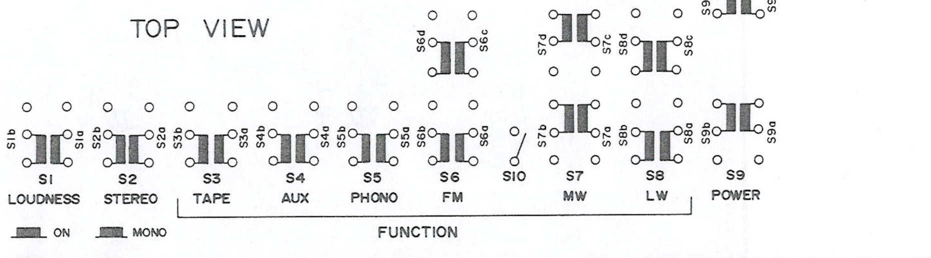
Q NO	SEMICONDUCTOR	GATE	DRAIN	SOURCE
Q1	2SK49H	0	9.2	0
		BASE	COLLECTOR	EMITTER
Q2	2SC668E	1.9	13.1	1.2
Q3	2SC930E	2.8	7.9	2.1
Q4	2SC930E	1.7	12.5	1.0
Q5	2SC536E	0.1	4.2	0
Q6	2SC536E	0.6	0.1	0
Q7	2SC930E	1.3	8.6	0.7
Q8	2SC930E	1.1	7.1	0.4
Q9	2SC930E	2.0	9.1	1.3
Q10,11	2SC536E	1.2	7.4	0.6
Q201,301	2SC536G	7.1	27.9	6.9
Q202,302	2SC536G	3.3	13.5	2.6
Q203,303	2SC536E	0	0	0

NOTES

1. ALL RESISTANCES ARE 1/4W, UNLESS NOTED OTHERWISE VALUES ARE IN OHMS. ($K=10^3$, $M=10^6$)
2. ALL CAPACITOR VALUES ARE IN μF. ($p=10^{-6}\mu F$)
3. VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M UNDER NO SIGNAL.
4. THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY.

IC NO \ PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC1 HA1137W (V)	2.0	2.0	2.0	0	0.8	5.9	6.0	5.6	5.6	5.5	12.8	4.0	0.1	0	4.8	0
IC2 LA3350 (V)	14.1	2.9	5.7	11.2	11.3	16.2	0	0.4	6.5	1.2	2.0	2.5	2.0	2.1	2.1	2.9
IC201 LA3133 (V)	6.9	0.6	28.1	0.6	13.1	1.8	0	29.1	1.8	13.1	0.6	29.1	0.5	7.0		
IC202 LA3133 (V)	6.9	0.6	28.1	0.6	13.1	1.8	0	29.1	1.8	13.1	0.6	29.1	0.5	7.0		

TOP VIEW

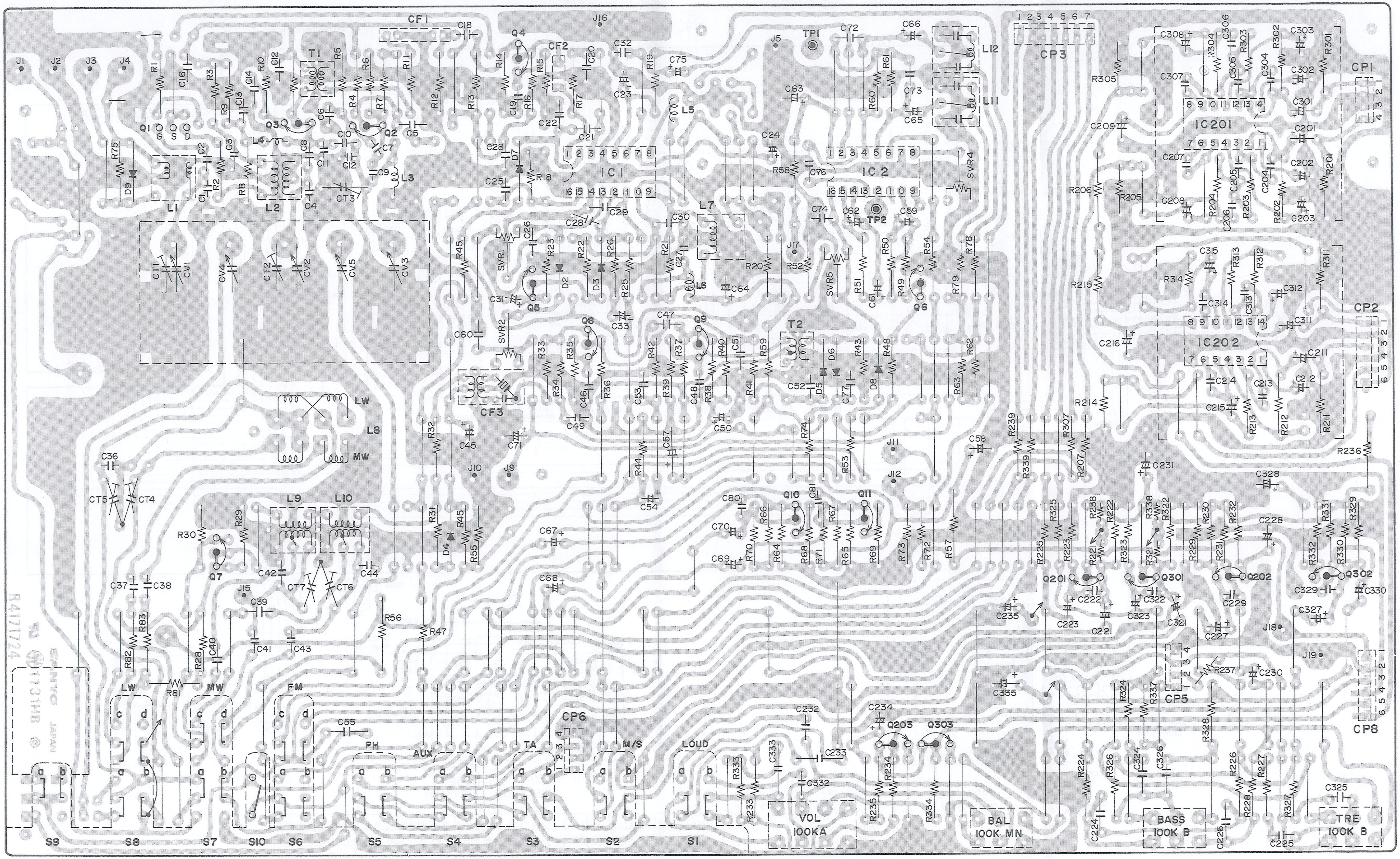

S1a
S1b
S2a
S2b
S3a
S3b
S4a
S4b
S5a
S5b
S6a
S6b
S6c
S6d
S7a
S7b
S7c
S7d
S8a
S8b
S8c
S8d
S9a
S9b
S9c
S9d
S1 LOUDNESS
S2 STEREO
S3 TAPE
S4 AUX
S5 PHONO
S6 FM
S10
S7 MW
S8 LW
S9 POWER
FUNCTION
ON
OFF
MONO
MUTING

SET THE FUNCTION SWITCH TO MW.

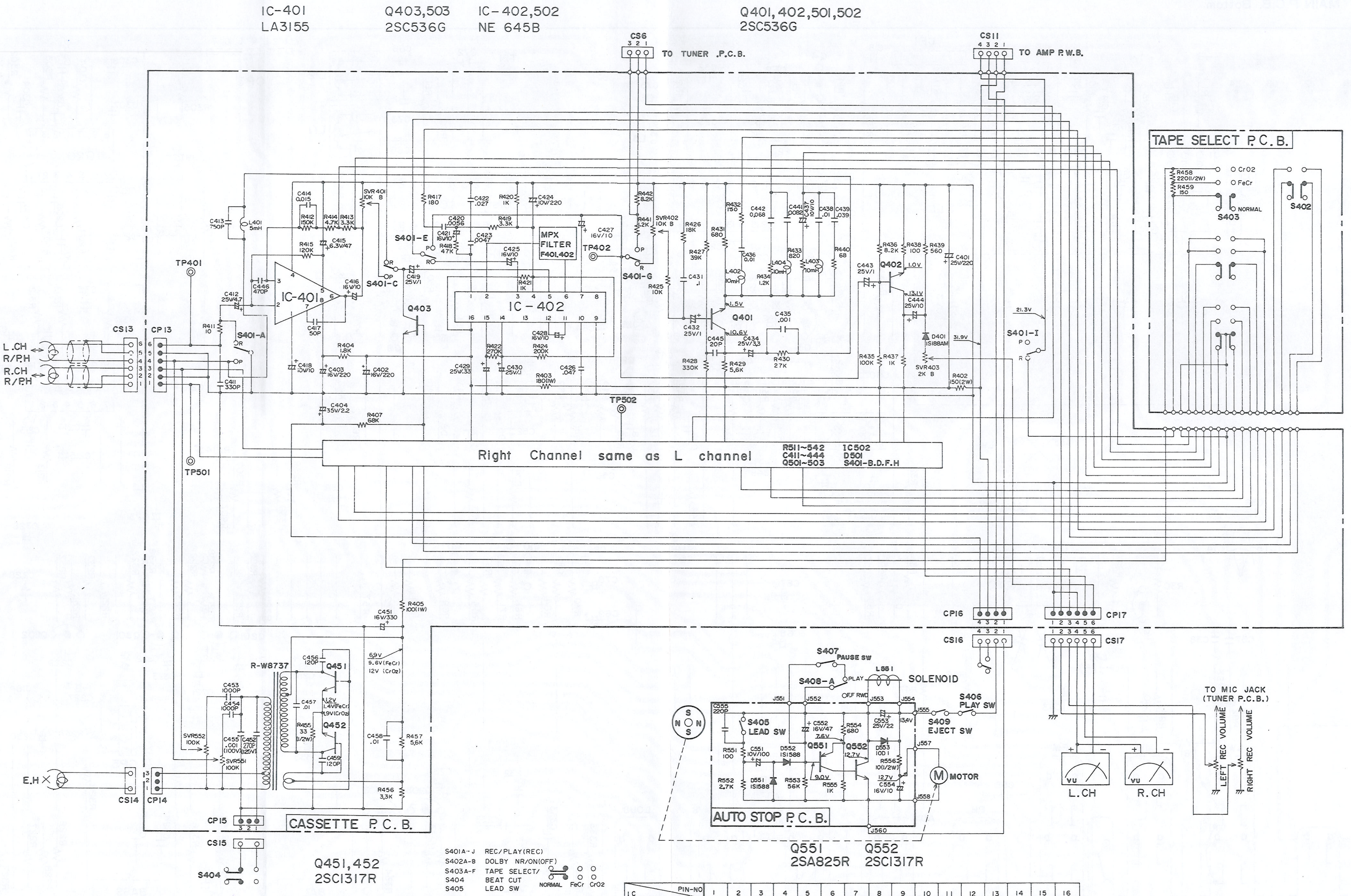
S10·····WHEN THE FUNCTION SWITCH IS SWITCHING
S10 SWITCH ON INSTANT.

WIRING DIAGRAM

MAIN P.C.B. Bottom


J1
J2
J3
J4
R1
C16
R3
R9
C13
C14
R10
C12
T1
R5
R6
R4
R7
R11
R12
R13
CF1
C18
Q4
R14
R15
R16
C19
CF2
C20
R17
C22
C21
J16
C32
C23
R19
C75
L5
J5
TP1
C72
C66
L12
L11
C63
R60
R61
C73
C65
1 2 3 4 5 6 7
CP3
C308
R304
C306
R303
C305
R302
C304
C303
C302
R301
C301
C201
C202
R201
C203
CP1
R305
C307
C209
IC201
8 9 10 11 12 13 14
7 6 5 4 3 2 1
C207
C208
R204
C206
C205
R203
C204
R202
R206
R205
Q1
G S D
R75
D9
L1
C2
R2
C1
C3
R8
L4
C8
L2
C6
C11
C4
Q3
C10
Q2
C5
C7
C12
C9
L3
CT3
C28
D7
R18
C25
IC1
1 2 3 4 5 6 7 8
16 15 14 13 12 11 10 9
C29
C28
C24
R58
C76
IC2
SVR4
C74
C62
TP2
C59
CT1
CV1
CV4
CT2
CV2
CV5
CV3
R45
SVR1
C26
R23
R22
D2
D3
R26
R25
R21
C27
C30
L7
L6
C64
R20
J17
R52
SVR5
R51
R50
R49
R54
R78
R79
C61
Q6
Q5
C31
C60
SVR2
Q8
C33
C47
Q9
T2
R33
R35
R34
C46
R36
R42
R37
R39
R40
C51
R59
C53
C48
R38
R41
D6
D5
C52
C77
R43
R48
D8
R62
R63
CF3
C49
C50
LW
L8
MW
R32
C45
C71
C58
R74
R44
C57
R53
J11
J12
J10
J9
C36
CT5
CT4
R29
R30
Q7
L9
L10
R31
D4
R55
C67
C54
C80
Q10
C81
Q11
C70
R66
R67
R70
R64
R68
R71
R65
R69
C69
R73
R72
R57
C42
CT7
CT6
C44
C68
C37
C38
J15
C39
R83
R82
R28
C40
C41
C43
R56
R47
R81
S9
S8
S7
S10
S6
S5
S4
S3
S2
S1
LW
MW
FM
PH
AUX
TA
M/S
LOUD
a b c d
C55
CP6
1 2 3 4
R239
R339
R307
R207
C231
R236
C328
R325
R225
R223
R238
R222
R221
R338
R322
R321
R323
R230
R229
R231
R232
C228
R331
R329
R332
R330
Q201
Q301
Q202
Q302
C222
C322
C223
C221
C323
C321
C229
C329
C330
C235
C227
C327
J18
J19
R214
R215
C216
IC202
C315
R313
R312
R311
R314
C314
C313
C312
C311
C211
C212
C214
C213
C215
R213
R212
R211
CP2
6 5 4 3 2 1
CP5
R237
C230
R324
R337
C335
CP8
C232
C234
Q203
Q303
R333
C333
C233
C332
R233
R234
R235
R334
R224
R326
C324
C326
R328
R226
R227
R228
R327
C325
VOL 100KA
BAL 100K MN
BASS 100K B
TRE 100K B
C224
C226
C225
R4171724
SANYO
1131HB
JAPAN

SCHEMATIC DIAGRAM

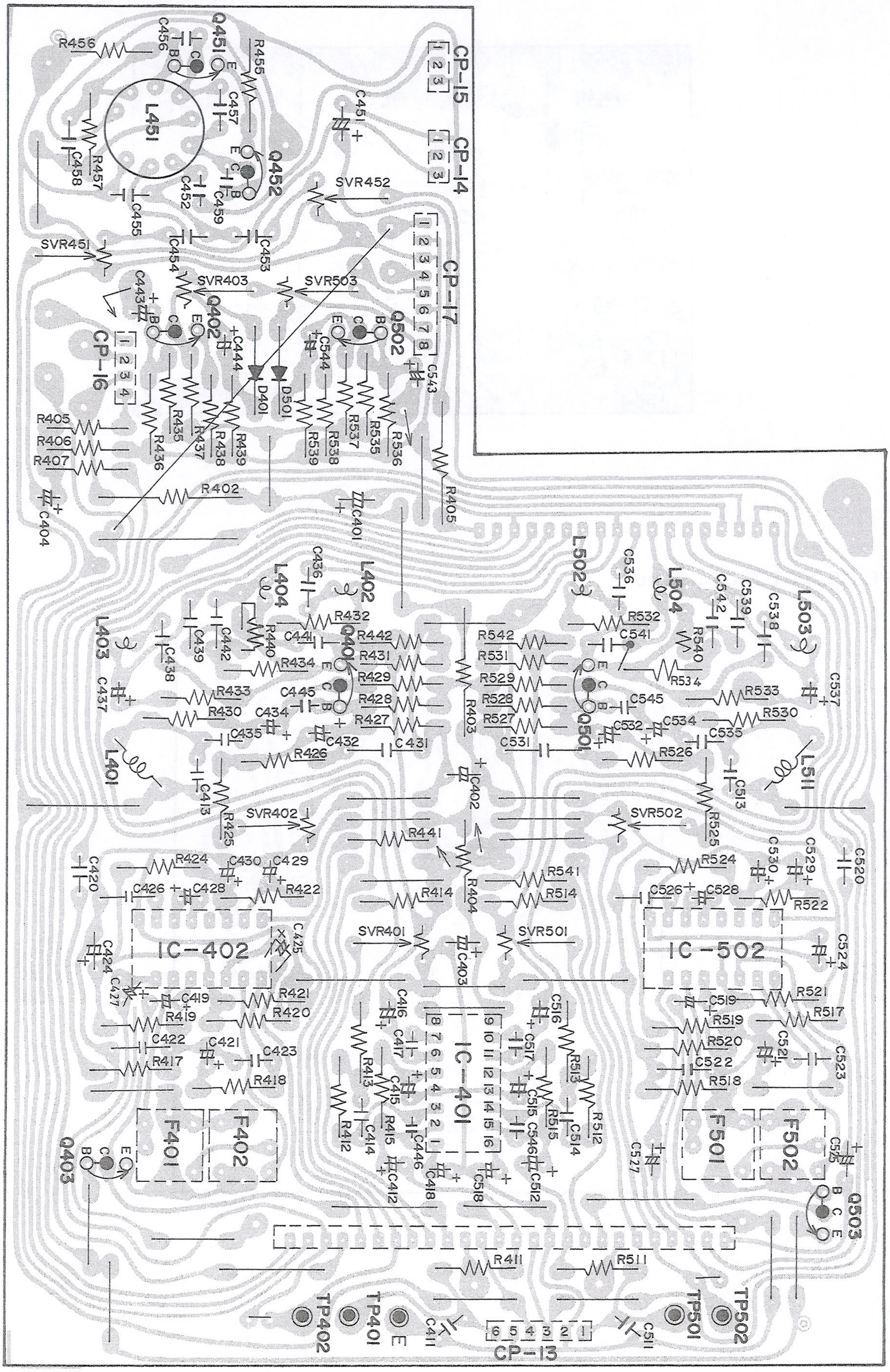

IC-401
LA3155
Q403,503
2SC536G
IC-402,502
NE 645B
Q401,402,501,502
2SC536G
CS6
TO TUNER P.C.B.
CS11
TO AMP P.W.B.
TAPE SELECT P.C.B.
R458 220(1/2W)
R459 150
CrO2
FeCr
NORMAL
S403
S402
L.CH R/P.H
R.CH R/P.H
CS13
CP13
TP401
TP402
TP501
TP502
C413 750P
L401 5mH
C414 0.015
R412 150K
R414 4.7K
R413 3.3K
R415 120K
C415 6.3V/47
SVR401 10K B
C446 470P
C412 25V/4.7
R411 10
S401-A
C411 330P
C416 16V/10
C417 50P
C418 10V/10
C403 16V/220
C402 16V/220
R404 1.8K
C404 35V/2.2
R407 68K
S401-C
S401-E
C419 25V/1
Q403
R417 180
C420 .0056
C421 16V/10
R418 47K
C422 .027
C423 .0047
R420 1K
R419 3.3K
C424 10V/220
C425 16V/10
R421 1K
MPX FILTER F401.402
C427 16V/10
IC-402
C428 16V/10
R422 270K
R424 200K
C429 25V/.33
C430 25V/.1
R403 180(1W)
C426 .047
R442 8.2K
R441 1.2K
SVR402 10K B
S401-G
R425 10K
R426 18K
R427 39K
C431 .1
R431 680
R432 150
C442 0.068
C436 0.01
L402 10mH
C441 .0082
C437 10V/10
C438 .01
C439 .039
R433 820
R434 1.2K
L404 10mH
L403 10mH
R440 68
Q401
1.5V
10.6V
C432 25V/1
C435 .001
C445 20P
C434 25V/3.3
R428 330K
R429 5.6K
R430 27K
C443 25V/1
Q402
1.0V
13.1V
R436 8.2K
R438 100
R439 560
C401 25V/220
C444 25V/10
D401 1S188AM
31.9V
21.3V
S401-I
R435 100K
R437 1K
SVR403 2K B
R402 150(2W)
Right Channel same as L channel
R511~542
C411~444
Q501~503
IC502
D501
S401-B.D.F.H
R405 100(1W)
C451 16V/330
R-W8737
C456 120P
Q451
6.9V
9.6V (FeCr)
12V (CrO2)
C453 1000P
C454 1000P
C457 .01
1.2V
1.4V(FeCr)
1.9V(CrO2)
R455 33 (1/2W)
Q452
C458 .01
R457 5.6K
SVR552 100K
C455 .001 (100V)
C452 270P (125V)
SVR551 100K
C459 120P
E.H
CS14
CP14
R456 3.3K
CP15
CS15
CASSETTE P.C.B.
S404
Q451,452
2SC1317R
CP16
CS16
CP17
CS17
S407 PAUSE SW
S408-A
PLAY
OFF RWD
L551
SOLENOID
J551
J552
J553
J554
J555
J557
J558
J560
S406 PLAY SW
S409 EJECT SW
C555 220P
S405 LEAD SW
C552 16V/47
R554 680
C553 25V/22
13.4V
7.6V
Q551
Q552
12.7V
R551 100
C551 10V/100
D552 1S1588
D553 10D1
R556 10(1/2W)
R552 2.7K
D551 1S1588
R553 56K
9.0V
R555 1K
12.7V
C554 16V/10
M MOTOR
AUTO STOP P.C.B.
S
N
Q551
2SA825R
Q552
2SC1317R
TO MIC JACK (TUNER P.C.B.)
VU
L.CH
R.CH
LEFT REC VOLUME
RIGHT REC VOLUME
NORMAL
FeCr
CrO2

S401A-J	REC/PLAY(REC)
S402A-B	DOLBY NR/ON(OFF)
S403A-F	TAPE SELECT/
S404	BEAT CUT
S405	LEAD SW
S406	PLAY (ON)
S407	PAUSE (ON)
S408A-B	PLAY/FF RWD(PLAY)
S409	EJECT SW

IC	PIN-NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC-401	LA3155	9.3V	0.6V	0.02V	0V	0.6V	7.5V	1.9V	10.6V	10.6V	1.9V	7.5V	0.6V	0V	0.02V	0.6V	9.3V
IC-402,502	NE 645B	3.7	7.5	8.0	7.4	7.3	7.5	6.6		0	7.4	7.5	7.4		7.4	7.1	14.4

WIRING DIAGRAM

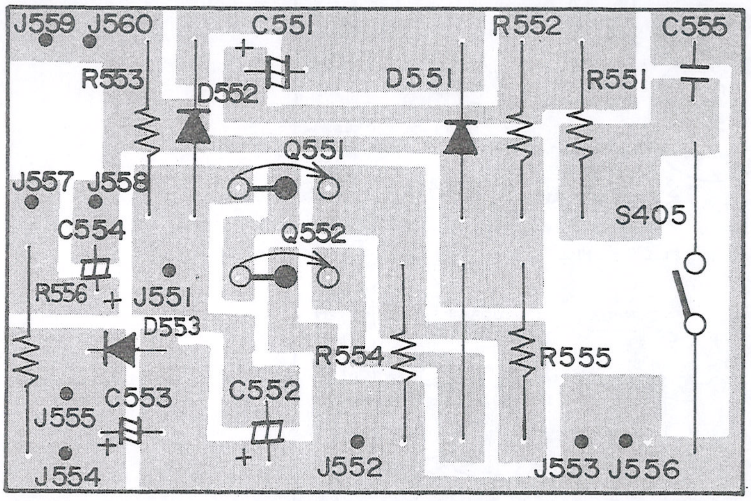
CASSETTE P.C.B. Bottom



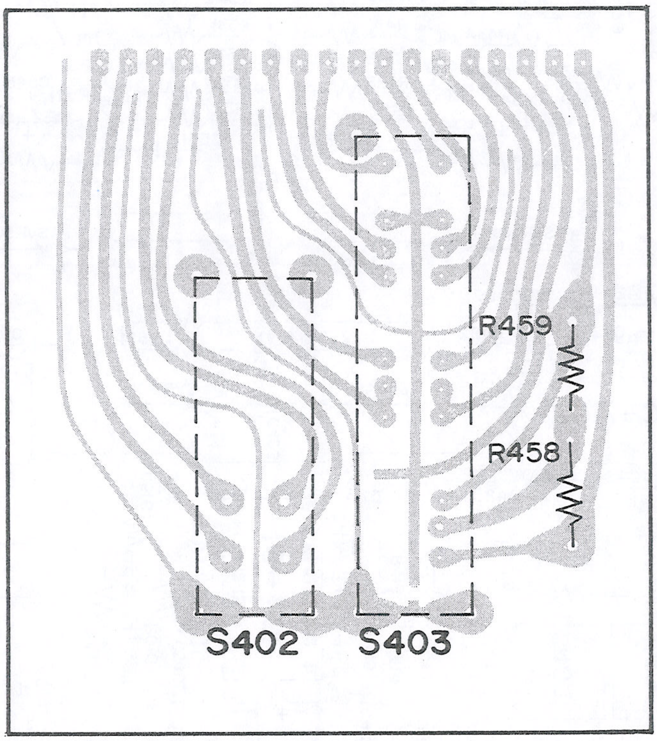
R456
C456
Q451
R455
C457
L451
R457
C458
C455
Q452
C452
C459
C451
CP-15
CP-14
SVR452
CP-17
SVR451
C454
C453
SVR403
SVR503
C443
Q402
Q502
C444
C544
C543
CP-16
D401
D501
R405
R406
R407
R435
R436
R437
R438
R439
R539
R538
R537
R535
R536
R402
C404
C401
R405
L502
L504
L503
C536
C542
C539
C538
L404
L402
C436
R432
L403
C438
C439
C442
R440
C441
Q401
R442
R431
R429
R428
R427
R434
R433
R430
C445
C434
C435
C432
C431
R426
C437
R542
R531
R529
R528
R527
R403
C531
R532
C541
R540
R534
Q501
C545
C532
C534
C535
R533
R530
C537
R526
L401
C413
C402
L511
C513
R425
SVR402
R441
SVR502
R525
R424
C430
C429
C420
C426
C428
R422
R414
R404
R541
R514
R524
C530
C529
C520
C526
C528
R522
IC-402
C425
C424
C427
SVR401
C403
SVR501
IC-502
C524
C419
R421
R419
R420
C416
C417
IC-401
C516
C517
C519
R521
R517
R519
R520
C521
C522
C523
C422
C421
C423
R417
R418
R413
C415
R513
C515
R512
R518
R415
R412
C414
C446
C412
C418
C518
C546
C512
R515
C514
C527
F401
F402
F501
F502
C525
Q403
Q503
R411
R511
TP402
TP401
E
C411
CP-13
C511
TP501
TP502
E
C
B

WIRING DIAGRAM

AUTO STOP P.C.B. Bottom


J559
J560
C551
R552
C555
R553
D552
D551
R551
Q551
J557
J558
S405
C554
Q552
R556
J551
D553
R554
R555
C552
C553
J555
J554
J552
J553
J556

TAPE SELECT P.C.B. Bottom

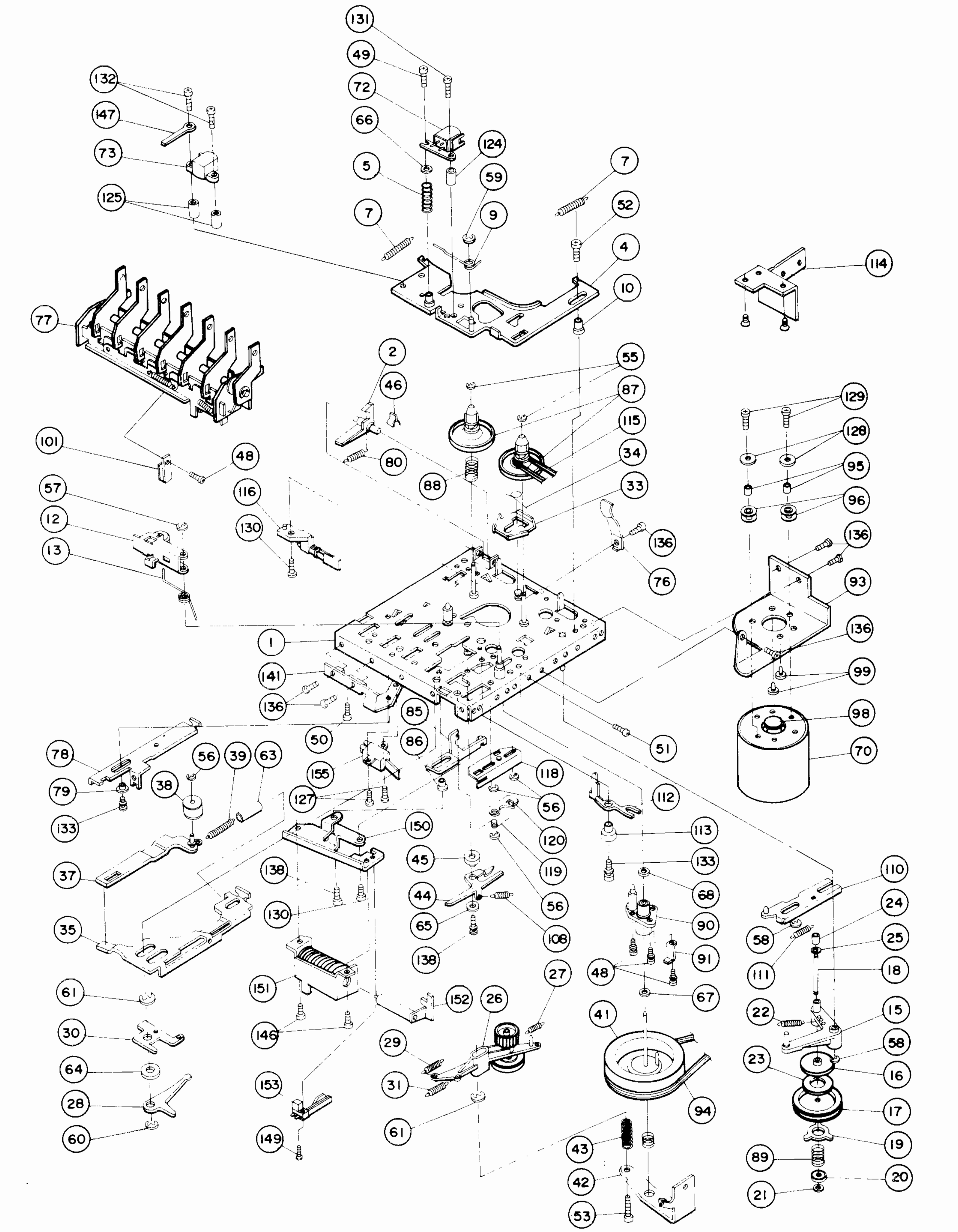

R459
R458
S402
S403

PARTS LIST (CASSETTE MECHANISM)

key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			CASSETTE MECHANISM	
1		878 01 81	Chassis assembly	1
2		268 05 03	Safety Rec lever	1
4		713 04 08	Head panel	1
5		48 04 08	Head spring	1
7		408 04 13	Head panel spring	2
9		408 04 05	RQ spring	1
10		408 04 11	Head panel collar	1
12		715 07 81	Pinch roller assembly	1
13		408 05 03	Pinch roller spring	1
15		408 07 92B	Clutch arm assembly	1
16		408 07 04	Clutch plate	1
17		973 07 01	Clutch pulley	1
18		02 05 02	Clutch shaft	1
19		408 07 06	Clutch spring	1
20		02 05 06	Clutch spring mounting	1
21		03 06 03	Nylon washer	1
22		238 04 06	Clutch arm spring	1
23		58 05 03	Clutch felt	1
24		03 06 01	Spacer	1
25		408 07 13	Nylon washer	1
26		668 08 91	FF arm SUB assembly	1
27		58 13 16	Spring	1
28		408 08 04	FF plate	1
29		408 08 10	FF plate spling	1
30		1018 08 15	RWD plate	1
31		408 08 10	RWD plate spring	1
33		408 09 01	Brake arm	1
34		408 09 02	Brake arm spring	1
35		408 09 03	Brake arm plate	1
37		970 10 81	RWD idler arm	1
38		211 09 02	RWD idler	1
39		02 09 05B	RWD idler spling	1
41		1045 11 01	Flywheel capstan	1
42		408 11 95	Support flywheel	1
43		06 04 05	Slast spring	1
44		408 14 05	Auto lever	1
45		542 14 01	Auto lever collar	1
46		268 05 15	Stopper	1
48			Tap. Screw. Pan HD. with Washer. M2×5	3
49			Screw. Pan HD., M2×6	1
50			Tap. Screw. Pan HD. with Washer. M2.6×6	1
51			Tap. Screw. Pan HD. with Washer. M2.6×4	1
52			Binde Screw. Pan HD. M2.6×4	1
53			Screw. Pan HD., M2.6×10	1
55			E ring ϕ1.2	2
56			E ring ϕ1.5	4
57			E ring ϕ1.9	1
58			E ring ϕ2.0	2
59			E ring ϕ2.5	1
60			E ring ϕ3.2	1
61			E ring ϕ4.0	2
63			Vinyl Tube	1
64			Nylcn washer ϕ4×ϕ8×0.5t	1
65			Washer ϕ2.6×ϕ8×0.5t	1
66			Washer M2	1
67		818 09 20	Washer ϕ2.2×ϕ7×0.5t	1
68			Washer flat ϕ1.9×ϕ5×0.5t	1
70		EG 510AD TZ	Moter	1
72		HN 424528	R.P.H Head	1
73		HF 213880	Erase head	1
76		1019 01 02	Spring plate cassette	1
77		1154 02 95	Button select assembly	1
78		542 03 01	REC slide lever	1
79		09 03 02	Collar REC slide lever	1
80		132 03 03	REC safty lever spring	1
85		542 04 08	Slide lever play	1
86		09 03 02	Play slide lever collar	1
87		572 06 95	Reel plate assembly	2
88		04 05 08	Spring back tention	1
89		542 07 01	Spring cluch	1
90		369 07 01	Shaft bracket flywheel	1
91		446 07 01	Earth plate	1
93		1050 12 01	Moter bracket	1
94		1045 12 02	Belt drive	1
95		58 10 09	Collar moter	2
96		58 10 06	Rubber cushion	2
98		973 12 02	Pulley moter	1
99		58 10 11	Rubber	2
108		408 14 07	Auto lever spring	1
110		408 15 81	Slide lever	1
111		408 15 10	Slide lever spring	1
112		408 15 03	Arm lever	1
113		238 13 04	Arm lever collar	1
114		1063 16 01	Bracket counter	1
116		630 14 01	Leaf switch	1
118		542 18 81	Slide lever pause	1
119		542 18 03	Pause lever spring	1
120		542 18 01	Pause lever	1
124		79 05 01	RPH collar	1
125		463 04 02	EH stand	2
127			Tap. Screw. Pan HD. with washer M3×5	2
128			Washer ϕ2.9×ϕ7.5×0.3	2
129			Screw. Pan HD., m2.6×6	2
130			Screw. Bind HD., M2.6×6	2
131			Screw. Pan HD., M2×11	1
132			Screw. Pan HD., M2×12	1
133			Screw. Pan HD. M2.6×5 with Washer	2
136			Tap. Screw. Pan HD. "C" M2.6×4	6
138			Screw. Pan HD., M2.6×8	2
146			Screw. Pan HD., M2×3	2
147		03 1307	Cord clamper	1
149			Screw. Pan HD. M2×4 with Washer	1
150		668 14 08	Metal bracket H	1
151		668 14 85	DC solenoid	1
152		668 14 81	Plunger	1
153		973 14 01	Pause switch	1
154		1154 15 01	Muting bracket	1
155		1065 20 01	Muting switch	1

NOTES : 1. Part orders must contain Model Number. Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

EXPLODED VIEW (CASSETTE MECHANISM)

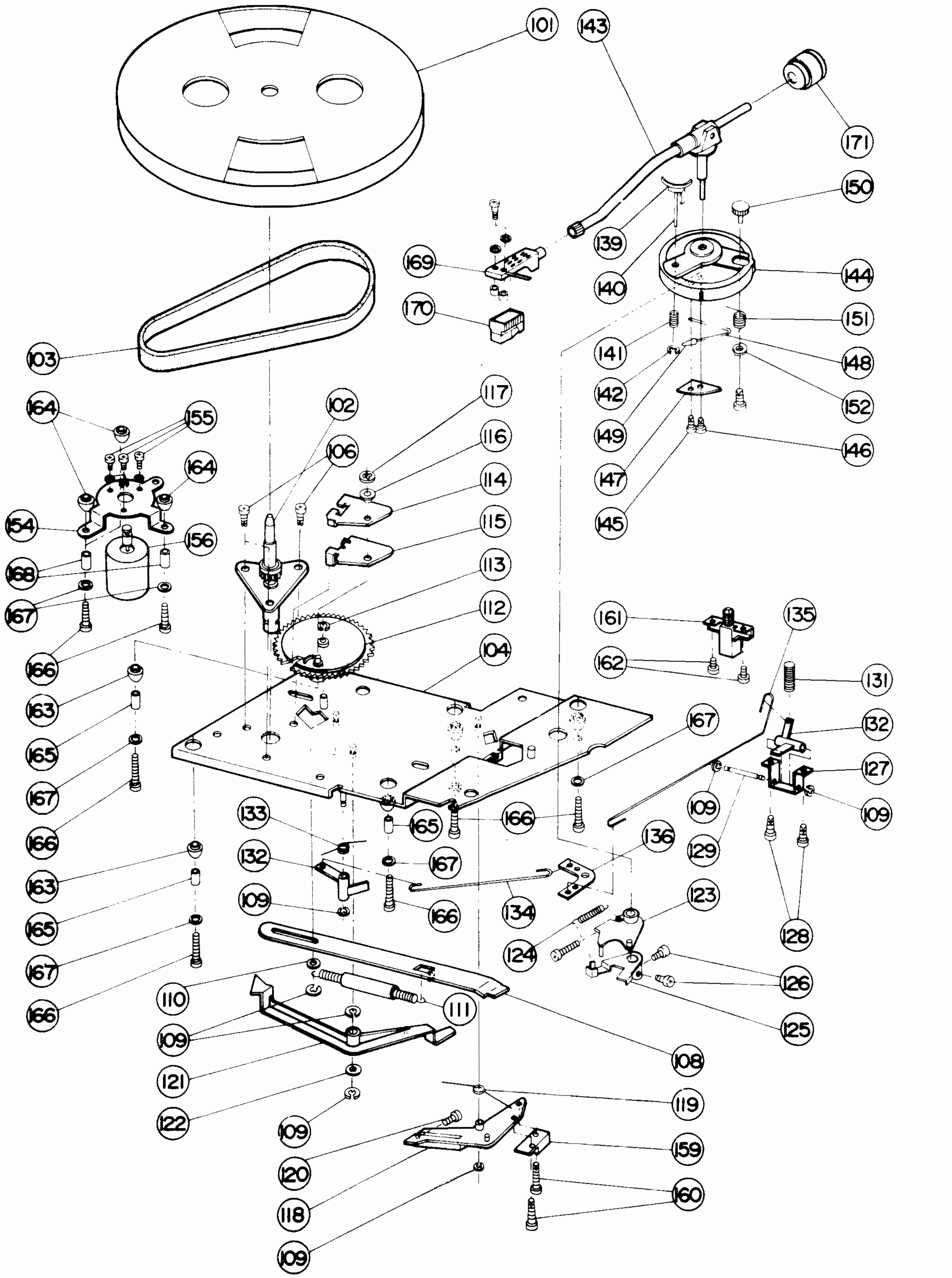


EXPLODED VIEW (PLAYER MECHANISM)

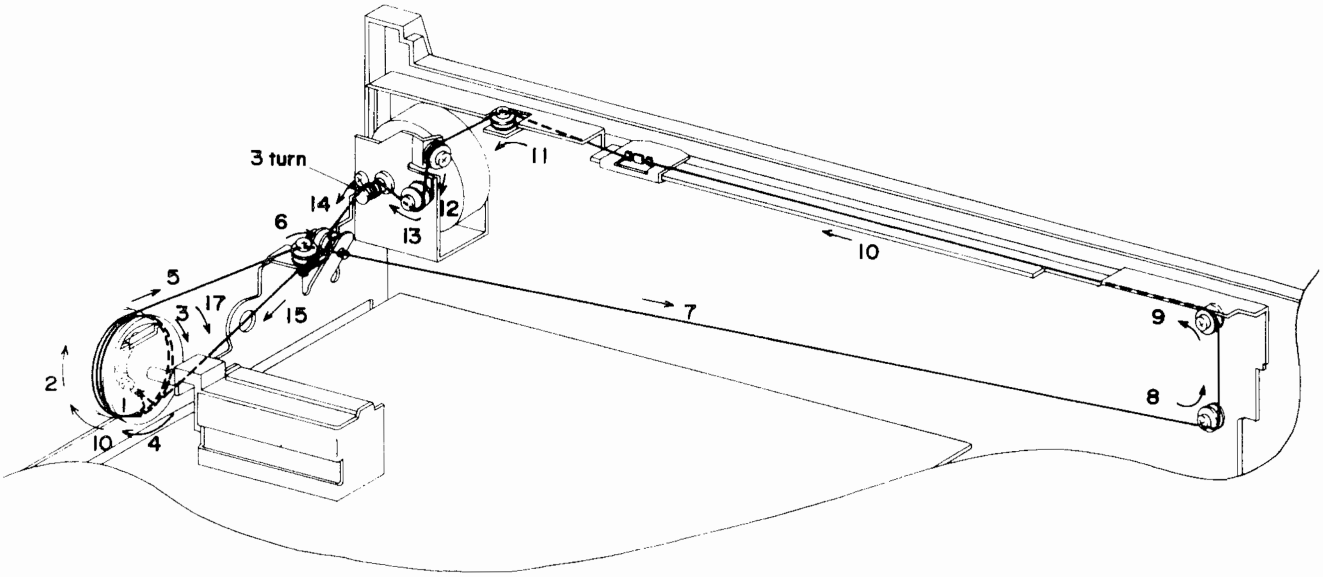
key No.	Ref. No.	PARTS No.	DESCRIPTION	Q'ty
			PLAYER MECHANISM PARTS	
101		R—277466	Turn table	1
102		R—S871615	Turn table shaft assembly	1
103		R—4470040a	Belt, T.T~Motor	1
104		R—S871491	Chassis assembly	1
106			Screw, Pan Hd., 3×8 B-tight	3
108		R—S871338	Lever assembly, Auto return	1
109			Ring, E.3	1
110			Thrust Washer, ϕ5×1t	1
111		R—157916	Coil spring, Lever	1
112		R—3971736	Gear, Auto return	1
113			Ring, E.4	1
114		R—1270818	Arm, Auto return	1
115		R—1270819	Arm, Auto return	1
116		R—247740	Shaft, Auto return	1
117			Ring, CS.3	1
118		R—3971737	Fix plastic board, Micro SW	1
119		R—157917	Coil spring, Micro SW	1
120			Screw, Pan Hd., 3×20	1
109			Ring, E.3	1
121		R—3971738	Arm, Auto return	1
109			Ring, E.3	2
122			Flat Washer, Metal, ϕ5×0.8	1
123		R—3971742	Fix plastic board, Auto return	1
124		R—157921	Coil spring, Fix plastic board	1
125		R—S871339	Metal bracket assembly, Micro SE	1
126			Screw, Pan Hd., 3×6	2
127		R—1171148	Metal bracket, REJECT	1
128			Tap. Screw, Pan Hd., 3×8	2
129		R—247863	Shaft, Fix plastic board	1
109			Ring, E. 3	2
131		R—157995	Coil spring, REJECT	1
132		R—3972073	Fix plastic board, REJECT	2
133		R—157996	Coil spring, REJECT	1
134		R—1570127	Shaft, REJECT	1
135		R—1570128	Shaft, REJECT	1
			Ring, E. 3	2
136		R—1171175	Arm, REJECT	1
			Tap. Screw, Pan Hd. with Washer, 3×10	1
		R—147084	Special screw, EJECT arm	1
		R—A73348	Rest stand assembly	1
			Tap. Screw, Pan Hd., 3×20	1
		R—3972076	Arm, Rest stand	1
			Screw, Round Hd. Wood, 2.4×6.5 (black)	1
139		R—3972074	Lifter plate	1
140		R—157993a	Shaft, Lifter plate	1
141		R—157997	Coil spring, Lifter plete	1
142			Ring, E. 2	1
		R—S07276	Pick up arm complete	1
143		R—S07277	Pick up arm	(1)
169		R—S07238	Head shell assembly	(1)
170		R—S07149	Cartridge assembly	(1)
		R—S07163	Stylus	(1)
171		R—S871482	Main weight assembly	(1)
144		R—S871495a	Pick up base assembly	1
145			Tap. Screw, Pan Hd., 2.6×5, P-tight	1
146			Tap. Screw, Pan Hd., 2.6×6, P-tight	1
147		R—1171149	Metal bracket,	1
148		R—157994	Lever, cue	1
149		R—3972075	Knob, cue	1
150		R—A73167	Knob assembly, Anti skate	1
151		R—157998a	Coil spring, Anti skate	1
152		R—3972143	Fix plastic board, IFC cam	1
154		R—1171147	Metal bracket, Motor Cabinet	1
155			Screw, Pan Hd., 2.6×4	3
156		R—S57156	Motor assembly	1
		R—247767	Pulley, Motor	1
			Ring, C, 2×4	1
159		R—S47377	Micro switch	1
160			Tap. Screw, Pan Hd., 3×16	2
161		R—S47391	Push switch, Speed select	1
162			Tap. Screw, Pan Hd., 3×6	2
163		R—4470047a	Cushion gum, Chassis~Cabinet	2
164		R—4470041	Cushion gum, Motor	7
165		R—247768	Shaft, Cushion gum	6
166			Tap. Screw, Pan Hd., 3×25	7
167			Flat Washer, Metal, 3.3×10×1t	4
168		R—247810	Shaft, Cushion gum, Metal bracket Motor~Cabinet	3
169		R—S3741	3P lug	1
			Tap. Screw, Pan Hd., 3×8	1
	CS9	R—S27298-3	Housing, 3P	1
	CS1	R—S27298-4	Housing, 4P	1
		R—247755	Terminal, Housing	5
		R—4470024	Turn table cover	1
			Carbon resistor, 2.7K ohm, +5%	1

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

EXPLODED VIEW (PLAYER MECHANISM)



DIAL CORD STRINGING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